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April 20, 2012

**Via Hand Delivery**

Kenneth I. Rose, III

Financial Analyst (3HS62)

U.S. Environmental Protection Agency, Region III

1650 Arch Street

Philadelphia, PA 19103-2029

**Re: Trainer Industries, LLC and Service Painting, Inc.  
Response to Required Submission of Information  
Metro Container Site, Trainer, Delaware County, Pennsylvania  
Our File No.: 943.000**

Dear Mr. Rose,

On behalf of my clients, Trainer Industries, LLC ("Trainer") and Service Painting, Inc. ("SPI"), I am writing to transmit Trainer and SPI's response to the Environmental Protection Agency's ("EPA's") Required Submission of Information ("RSOI"), dated March 7, 2012. EPA kindly granted our requests for an extension of time to response to the RSOI up to and including April 20, 2012. All documents responsive to EPA's Enclosure E-Information Required, are included on the enclosed disc. Please note under the Agreement and Covenant Not to Sue issued to Trainer by USEPA in In the Matter of: Metro Container Corporation Site, Trainer Industries, LLC, Settling Respondent (EPA Docket No. CERC-PPA-99-06), Trainer has no liability or responsibility for any hazardous substances disposed of or released at the Metro Property by Metro Container Corporation, or by any other entity that generated hazardous substances that were delivered, disposed of, or released there, during its ownership and operation of the site,. Trainer and SPI reserve the right to supplement this response.

**MICHELMAN & BRICKER, P.C.**

April 20, 2012

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Thank you for your time and attention to this matter. Please contact me if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "David F. Michelman", with a long horizontal flourish extending to the right.

DAVID F. MICHELMAN  
MARA COHEN JACKEL

/mcj

Attachments

cc: Andrew Goldman, U.S. EPA (via e-mail only – without exhibits)  
Nick Garavelas (via e-mail only – without exhibits)

## Enclosure E

1. Provide a detailed corporate history of Trainer Industries, LLC. Your response should include, without limitation:
  - a. The state and date of incorporation; and
  - b. A description of any mergers, assets transfers, and name changes relating to Trainer.

### RESPONSE:

- a. **This Request for Information is being answered by two entities, Trainer Industries, LLC ("Trainer") and Service Painting, Inc. ("SPI"). Trainer Industries, LLC was incorporated in Pennsylvania on October 9, 1998 (see Certificate of Organization, attached hereto as Exhibit A). Trainer has owned the property located at West Second Street and Price Road in Trainer Borough (the "Metro Property") since 1999. Service Painting, Inc. ("SPI") was incorporated in Pennsylvania on November 29, 1993 (see Articles of Incorporation, attached hereto as Exhibit B). SPI is a separate corporation which has conducted business operations on the Metro Property since 2002-2003.**
  - b. **None.**
2. Confirm whether Trainer currently owns the Metro Property. Provide a copy of all documents which refer or relate to the acquisition of the Metro Property by Trainer.

**RESPONSE: Yes, Trainer currently owns the Metro Property. Trainer purchased the Metro Property in connection with and reliance upon an Agreement and Covenant Not to Sue issued to it by USEPA in In the Matter of: Metro Container Corporation Site, Trainer Industries, LLC, Settling Respondent (EPA Docket No. CERC-PPA-99-06), which is attached hereto as Exhibit C.**

**In addition, the following documents demonstrate Trainer's ownership of the Metro Property:**

- (1) **Purchase, Assignment, and Assumption Agreement between Trainer Industries, LLC and Wilmington Trust Company, dated May 24, 1999 (attached hereto as Exhibit D);**
  - (2) **Assignment of Mortgage between Trainer and Wilmington Trust Co., dated September 24, 1999 (attached hereto as Exhibit E); and**
  - (3) **Sheriff's Deed for the property located at West Second Street and Price Road in Trainer Borough, dated February 8, 2001 (attached hereto as Exhibit F).**
3. Please identify and describe the business operation(s) conducted by Trainer at the Metro Property from the company's inception to the present. Your response should

include, without limitation, the following information:

- a. The products or services provided by Trainer to its customers;
- b. The physical/chemical/manufacturing processes used to provide each product or service to its customers;
- c. The raw materials used by Trainer;
- d. The waste materials generated by Trainer and how each is/was disposed of; and,
- e. The identity of any such wastes that were buried, burned, or otherwise placed onto the Metro Property and the location where such activity took place.

**RESPONSE:** Trainer has not conducted any business operations on the Metro Property since it acquired the Property. Trainer is a passive owner of the Metro Property. All business operations which have been conducted on the Metro Property between 2002 and the present have been conducted by SPI, rather than Trainer.

**a. The Products or Services Provided to Customers on the Metro Property:**

Trainer did not provide any products or services to customers. All products and services to customers were provided by SPI. SPI started operations on the Property in 2002 or 2003. SPI is a painting business which provides painting services for petrochemical refineries and industrial facilities. Between 2002-2003 and 2008, SPI maintained an office on the Metro Property and conducted its office operations at that location. During that period from 2002-2003 until 2008, all of SPI's painting services for its customers were performed off-site, at the customer's facilities, rather than at the Metro Property.

Starting in 2008, SPI began performing a small portion of its painting services on the Metro Property, rather than off-site. These services involved performing sandblasting and painting of SPI's customers' pipes at the Metro Property. Beginning in 2008, about ten percent (10%) of SPI's customers began to request that SPI perform the sandblasting and painting of their pipes at the Metro Property, before the pipes were installed at the customer's facility. However, since 2008, ninety percent (90%) of the sandblasting and painting services performed by SPI have been conducted off-site, away from the Metro Property, and with only ten percent (10%) of those business operations being conducted on-site.

**b. The physical/chemical/manufacturing processes used to provide each product or service to customers.**

Trainer did not use any physical/chemical/manufacturing processes on the Metro Property to provide each product or service to customers. All physical/chemical/manufacturing processes used on the Metro Property to provide each product or service to customers were used by SPI.

SPI's on-site operations involve the following two processes: (1) sandblasting of metal pipes; and (2) painting of metal pipes. Pipes belonging to customers are delivered to the Property on customers' trucks. The pipes come from pipe suppliers or manufacturers or steel suppliers, who sell it to contractors, and the contractors, who are SPI's customers, send them to SPI. SPI unloads the pipes using a forklift. The pipes are stored outside, in the Property's yard, prior to the sandblasting operation. After they are subjected to the sandblasting and painting processes, SPI's forklift moves them back to a storage area in the Property's yard, until the customer sends trucks to pick them up. Treated and untreated pipes are stored outside in the yard, with materials from each contractor being placed in different areas. SPI's forklift loads the pipes onto the customers' trucks and they are taken away for the site by the customers. These processes are described in more detail below:

i. Sandblasting Operations

When a customer drops off a metal pipe to be serviced by SPI, the first step in the process is for SPI to sandblast the pipe. Sandblasting operations have been conducted on the Property for only the last three to four years. Until approximately six months ago, the sandblasting occurred outdoors, in the yard of the Property. The outdoor sandblasting area was located near the lagoon, but SPI has placed bales of hay around the lagoon, between the sandblasting area and the lagoon. Sandblasting is now conducted inside the warehouse building. Pipes are moved to the sandblasting area when SPI employees are ready to work on them.

The sandblasting is performed on new metal that has not been painted. This process removes part of the metal surface. SPI employees then clean the surface, pushing in the metal to make a sharp profile to make it easier for the paint to adhere to. The equipment used in the sandblasting process consists of: (1) an 8' x 4' pressurized tank which holds 6 tons of sand/grit; a compressor which uses compressed air to project and spray the sand with 90-120 psi; and (3) a rubber hose to spray the sand.

ii. Painting Operations

After sandblasting, SPI paints the pipes, applying a coating to the outside of the pipes. Until about six months ago, paint application occurred in the same area of the outside yard where the sandblasting operations were conducted. Since last fall, when the sandblasting was moved into the warehouse, the painting process was also moved inside. When the painting operation was conducted outside, SPI had also put down bales of hay to protect against any runoff to Stoney Creek, which runs above-ground on SPI's property. Before painting begins, SPI covers the ground around the painting area with plastic sheets, which are used as a barrier to prevent contact between the paint and the ground. For each job, new polyethylene sheets are placed down, and are

removed at the end of the job. Typically, SPI places 6-millimeter polyethylene sheets in 100-foot by 20-foot sections on the ground before painting. For smaller jobs, SPI cuts the sheets into smaller sections. Next, SPI uses a forklift to put down a base-layer of pipes on top of the polyethylene sheets, as a support system for the other pipes which are being painted. The base-layer of pipes prevents the pipes which are being painted from ever touching either the ground or the plastic sheets. The pipes which are being painted are moved by hand to make sure that they are fully coated all around.

Before starting, the paint is strained through cheesecloth to remove any solids or particles that were in the original paint can. This cheesecloth is then thrown in the dumpster with the office waste. The paint is then mixed with thinners, at which point it is ready for application. The paint is applied by spraying (50%) and by brush and roll (50%). The equipment used for spraying consists of a spray pump, a compressor, plastic hoses and a spray gun. The compressor drives a piston in the spray pump, which uses a hydraulic system to push the paint through a hose into the paint spray pump, and then from the pump into a hose connected to the spray gun.

**c. Raw Materials Used on the Metro Property.**

Trainer did not use any raw materials on the Metro Property. All raw materials used on the Metro Property were used by SPI. SPI stores raw materials in a warehouse on its Property. These raw materials are primarily grit and sand (packaged in paper bags) and buckets of paint and reducers (such as thinners and solvents) that get mixed into the paint coating.

The raw material used in the sandblasting process is sand or different types of grit. Sand is delivered to the Property by a tanker in bulk in approximately 20- to 23-ton deliveries, and is placed into a silo. Deliveries of sand/grit are made approximately 20 times per year.

The raw material used in the painting process is a two-part mixture involving the paint and the thinner. The raw materials used in painting operations are epoxy paints or other paints, and thinners. SPI does not use lead based paint, and maintains MSDS sheets for all paints and thinners. The paint comes in 5-gallon buckets, and has always been stored inside the warehouse, in a separate enclosed room, on a concrete floor. 200-300 gallons of paint may be stored at any one time, but the amount varies. Paints are all in sealed containers, and are kept sealed while in the room.

SPI's raw materials also include no. 2 fuel oil and diesel fuel. SPI has a 2000-gallon above-ground storage tank for no. 2 fuel oil within a containment area, on the Property. SPI also stores diesel fuel in 5-gallon, for use at job-sites. These cans were previously located outside the building within a containment area, and are now stored inside the building.

SPI also has an office operation. SPI's office operation consists of 3 employees who perform normal clerical and administrative activities on the Property. The raw materials used by the office are standard office supplies, including paper and cardboard.

**d. The Waste Materials Generated on the Metro Property and How Each Is/Was Disposed of.**

Trainer did not generate any waste materials on the Metro Property, or dispose of such waste materials. All waste materials generated on the Metro Property or disposed of from the Metro Property were generated or disposed of by SPI.

The principal waste stream created by the sandblasting process waste is waste sand. Previously, waste sand accumulated in the outside yard; now it accumulates in an enclosed area inside the warehouse building. It is piled up rather than being put in drums. Because the amount of this waste generated is small, the waste sand is sent out for disposal approximately every 3 years. When enough waste sand has accumulated for disposal, SPI starts the process to have the waste sent to the proper disposal facility. First, SPI has an environmental consultant, EMSL Analytical, Inc. ("EMSL"), test the waste sand to determine its components and how it should be disposed. After SPI receives the results for the samples, SPI fills out the appropriate paper work with Waste Management, a private hauling company, so that Waste Management can properly remove, transport and dispose of the waste sand. The waste sand is transferred into 20-cubic-yard containers and sent to a disposal facility, accompanied by appropriate paperwork. The sand waste varies in weight, depending on the amount of moisture it retains, but each 20-cubic yard container of sand waste is usually weighs between 15- 20 tons. Waste Management paperwork shows that it has transported the waste sand to G.R.O.W.S. Landfill, 1513 Bordentown Rd., Morrisville, PA 19067 and Tullytown Resource Recovery Facility, 200 Bordentown Road, Tullytown, PA 19007. After SPI started sandblasting operations on the Property in 2008, it which it had a high volume of sandblasting jobs from later 2009 through early 2010, and during that time SPI sent out an average of 37 cubic yard of waste sand per month. The sand samples taken in 2008, showed that the waste sand contained trace amounts of barium, cadmium and lead, and could therefore be disposed of as non-hazardous waste. (See Exhibit G). From 2010-2012, SPI has generated an average of 14 tons of waste sand per month, for an annual quantity of approximately 168 tons per year. Currently, SPI is in the process of arranging for the testing and disposal of 300-350 tons of waste sand, which had accumulated over the past two years. EMSL's waste sand sampling from earlier this year show that the waste sand contains only trace levels of barium. (See Waste Management Non-Hazardous Waste Manifests and corresponding Invoices, attached as Exhibit H).

Repairs and maintenance of the sandblasting process also creates minor incidental waste streams of (1) rubber hoses; (2) metal valves; and (3) waste oil. When sandblast hoses wear out, they are disposed of with the solid waste trash stream from the office, into the dumpster. The metal valves from the sandblasting equipment eventually

wear out and have to be discarded. When the valves wear out, SPI contacts a metal recycler and sells the valves as scrap. The compressor uses no.2 fuel oil to operate. When the oil is changed, it is put into drums, and then is hauled away for recycling. All oil is disposed off-site with a private waste oil company that picks up and disposes of this waste oil. A forklift, which operates using no. 2 fuel oil, also generates a small occasional waste oil waste stream when it is serviced by a contractor, who also removes the waste oil from for off-site disposal and recycling.

The primary waste stream from the painting operations are waste paints and solvents which are left over from a painting job for a particular customer. The waste paint includes spent paint from painting performed on-site, and spent paint from painting performed off-site for small customers, who require SPI to take the spent paint back to their Property and then arrange for its disposal. They put the waste paint into the drums for temporary storage until enough waste accumulates to dispose of it. They allow one to two 55-gallon drums of waste paint to accumulate, and then they send it out for disposal. The waste paint drums are stored in the paint storage area. They accumulate 1-2 drums of waste paint approximately every two years, for an annual quantity of approximately 55 gallons. When the waste paint is ready to be picked up SPI arranges with Veolia Environmental Services ("Veolia"), a private company, for removal and disposal of the drums of leftover paints and solvents, which Veolia sends as non-hazardous waste to an appropriate disposal facility. Most recently, in July 2011, Veolia picked up 800 pounds of paint solid waste, and transported it to Veolia ES Technical Solutions, LLC property at 2176 Will Suitt Road, Creedmoore, NC 27522. Before Veolia, a company called Onyx Environmental Services transported SPI's waste paint. These manifests are attached as Exhibit I.

Maintenance of the painting process does not generate any separate waste stream. They use solvents to clean the spray pump, but they save the solvents, and use them to mix the paint that is applied the next day, so that there is no separate solvent waste stream.

Secondary waste streams from the painting operation include: (1) plastic sheeting with dried paint on it; (2) empty paint buckets; and (3) used cheesecloth. The plastic sheets are disposed of in the trash dumpster, as non-hazardous solid waste. DEP allows SPI to leave up to ¾ inch of liquid paint material in a bucket and consider it as empty, and to dispose of it as solid waste in the dumpster used for office waste. The paint process also produces the cheesecloth waste from the straining process described above, which consists of the cheesecloth and any debris or solid pieces that formed in the new paint cans. Because the cheesecloth only contains a minimal amount of solid waste, DEP allows SPI to dispose of this waste in the trash dumpster as non-hazardous solid waste. Because the compressor used for painting operations is the same compressor used for sandblasting, there is no separate waste oil waste stream from the painting operation.

Aside from the equipment described above, no other heavy equipment machinery is operated on site. SPI has 20 pickup trucks and vans that come in and out of

the site, but they are not serviced on site. They are used to transport employees and their equipment and paint material to job sites.

SPI's office operations generate a solid waste stream of paper, cardboard, packaging materials, office supplies, food waste, and other standard office wastes, which are placed into a small (5-foot by 5-foot by 5-foot) dumpster container between the warehouse and the office. This dumpster is removed for disposal by a private hauler, Waste Management.

Several old buildings on the property have been demolished, and bricks and cement blocks from the demolition still remain on the property. There are about 200-300 tons of bricks and block.

**e. The identity of any such wastes that were buried, burned, or otherwise placed onto the Metro Property and the location where such activity took place.**

No waste is or has been buried, burned or otherwise placed onto the Metro Property by Trainer or SPI. All waste generated by SPI on the Metro Property has been properly removed from the Property and properly disposed of by licensed waste haulers at a lawful disposal facility.

4. Describe, in detail, Trainer's use, storage, generation, or disposal of any hazardous substances or any product containing hazardous substances (collectively "Substances") at or near the Metro Property including, but not limited to, VOCs (e.g., benzene, tetrachloroethylene, toluene, trichloroethylene), PAHs (e.g., anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene), PCBs (e.g., Aroclor-1248, Aroclor-1254, Aroclor-1260), and metals (e.g., antimony, arsenic, cadmium, lead, mercury, nickel, thallium, and zinc).

**RESPONSE:** Trainer did not use, store, generate, or dispose of any hazardous substances or any product containing hazardous substances (collectively "Substances") at or near the Metro Property including, but not limited to, VOCs, PAHs, PCBs, and metals. Trainer is a passive owner of the Property, which has not conducted any business operations on the Metro Property.

All business operations conducted on the Metro Property between 2002 and the present have been conducted by SPI. SPI's business operations on the Metro Property used certain raw materials that contained hazardous substances, and as a result, this use has resulted in the storage and disposal of wastes that contained hazardous substances. None of these wastes were classified as RCRA hazardous wastes.

The sand and grit used in SPI's sandblasting process may contain ingredients that are hazardous substances. Those hazardous substances are identified in MSDS sheets which are attached hereto as Exhibit J. The waste sand produced by the sandblasting process, which SPI stores at and disposes of from the Metro Property, is not a RCRA

**hazardous waste, and is properly disposed of as a non-hazardous waste. Waste manifests for this non-hazardous waste are attached hereto as Exhibit H).**

**The paint epoxies and thinners used in SPI's painting process contain ingredients that are hazardous substances. SPI uses several paint epoxies and thinners, and the hazardous substances which are ingredients in those paints and thinners are identified in Material Safety Data Sheets ("MSDS") sheets which are attached hereto as Exhibit K. The waste paint produced by the painting process, which SPI stores at and disposes of from the Metro Property, is not a RCRA hazardous waste and is properly disposed of as a non-hazardous waste. Waste manifests for this non-hazardous waste are attached hereto as Exhibit I.**

5. Provide the following information regarding each Substance identified in your response to Question #4:
  - a. Identify the specific process in which such Substance was used or generated;
  - b. Identify the chemical content and the physical state of each Substance at the time of use or generation. In addition, provide chemical analyses and Material Safety Data Sheets ("MSDSs") for all such Substances.
  - c. Identify the annual quantity of Substances used, stored, or generated at the Site.
  - d. Identify the method of disposal of for each Substance used, stored, or generated at the Site.

**RESPONSE: Since Trainer's response to question #4 did not identify any hazardous substances, because it did not conduct any business operations on the Metro Property, Trainer has no further information to provide in response to Question No. 5 (a)-(d) SPI's response to question #4 did identify hazardous substances, used and stored on, or disposed of from the Metro Property, since SPI conducted business operations there., and therefore it provides the following responses to Question No. 5 (a)-(d):. .**

- a. **SPI used hazardous substances in its sandblasting process and painting process. These hazardous substances were constituents in the sand and grit used in the sandblasting process, and the paints and thinners used in the painting process. The waste sand/grit and waste paint generated by these processes contained these hazardous substances, but these wastes were not classified as RCRA hazardous wastes, and were properly disposed of as non-hazardous solid wastes.**
- b. **The Material Safety Data sheets for the sand/grit used in SPI's sandblasting process are attached as Exhibit J. The physical state of these raw materials was solid. These MSDS's contain a breakdown with the names and concentrations of the hazardous substances in these raw materials, which included trace elements of barium, cadmium, and lead. These chemical**

**constituents were present in the waste sand at concentrations below regulatory limits (see Exhibit G). This waste sand was properly disposed of as non-hazardous waste (see Exhibit H).**

**The Material Safety Data sheets for the epoxy paint and thinners used in the painting process are attached hereto as Exhibit K. The physical state of these epoxy paints was solid; the physical state of the thinners was liquid. These contain a breakdown with the names and concentrations of the hazardous substances in these raw materials, which included xylene, ethylbenzene, and 1-butanol. These chemical constituents were present in the waste paint at concentrations below regulatory limits, and this waste paint was properly disposed of as non-hazardous waste (see Exhibit I).**

- c. The hazardous substances used or stored at the facility were ingredients which constituted a small percentage of the weight or volume of the raw materials and the waste streams generated. The waste manifests attached as Exhibits H and I show the volumes of wastes generated which contained these hazardous substances. See also, SPI's response to Request No. 3.**
  - d. See SPI's response to Request Nos. 3 & 4, which contains an explanation of the method of disposal for each waste stream.**
- 6. Identify all hazardous and non-hazardous waste streams generated by you during your operations at the Site.**

**RESPONSE: Trainer did not generate any hazardous or non-hazardous waste streams on the Metro Property, since it did not conduct any business operations on the Metro Property. SPI did not generate any hazardous waste streams from its operations on the Metro Property. SPI did generate non-hazardous waste streams from its operations on the Metro Property, including waste sand/grit from its sandblasting process, waste paint/thinner from its painting process, and office waste. See SPI's description of its waste streams in its response to Request No. 3. SPI's non-hazardous waste manifests for its waste sand and waste paint waste streams are attached hereto as Exhibits H and I.**

- 7. Describe your waste disposal practices for each waste stream identified in response to Question #6. Your response should include how each such waste stream was stored prior to disposal, the method in which each such waste stream was disposed, the entity or person that transported each such waste stream and the name of the disposal location for each such waste stream.**

**RESPONSE: Trainer did not have any waste disposal practices since it did not conduct any operations at the Metro Property and did not generate any waste stream identified in response to Question #6. SPI's waste disposal practices for each waste stream identified in response to Question #6 are described in its Response to Request No. 3, above, which is incorporated by reference.**

8. Did Trainer ever spill or cause a release of any of the Substances identified in response to Questions 3-6? If yes, then identify the following:
- a. The date(s) the spill(s)/release(s) occurred;
  - b. The location(s) at which the spill(s)/release(s) occurred;
  - c. The composition (i.e. chemical analysis) of the materials which were spilled/released; and,
  - d. The response made by or on your behalf with respect to the spill(s)/release(s).

**RESPONSE:** Trainer never spilled or caused a release of any of the hazardous substances identified in response to Questions 3-6, since it did not conduct any operations on the Metro Property. SPI never spilled or caused a release of any of the hazardous substances identified in response to Questions 3-6 in connection with its business operations conducted on the Metro Property between 2002 and the present have been conducted by SPI, with the limited exception of the minor spills below which never came into contact with or impacted soil or groundwater at the Metro Property . The only spills that occurred were small spills of paint, of no more than ½ to 1 gallon, which occurred inside the warehouse, on a concrete floor. In each instance when liquid epoxy paint ("Part A") was spilled, SPI's employees activated this liquid to turn it into a solid which was easily picked up and disposed of. To do this, SPI added Part B of the epoxy mixture to the liquid Part A paint, and allow it to dry. This solid paint waste was disposed of by placing it into the trash dumpster used for the office waste stream, or by placing it into the drum used to store waste paint. No records of any such paint spills were kept because the spills were always less than the 5 gallons threshold for reporting such spills to DEP. Because no records were kept of these small paint spills, SPI cannot provide the specific dates of any such spills. However, neither the paint spills themselves, nor the waste paint from the spills, ever went into the ground or came into contact with soil or groundwater.

9. Please identify Trainer's officers and directors from the date Trainer was created to the present, including the dates each officer and/or director served in his or her capacity.

**RESPONSE:** The officers of Trainer from 1998 to present are as follows: Nick Garavelas is President, Charles Campbell is Vice-President, and Deborah Kennard is Secretary. Trainer has no directors.

When SPI was created in 1993, its offices were Nick Garavelas as President, Charles Campbell as Vice Present, and Phyllis L. Burke as Treasurer and Secretary. In approximately 1996, Deborah Kennard took over as Secretary and Treasurer of SPI from Phyllis Burke. SPI has no directors.

10. Provide the name, title, address, and telephone number of the person answering, these questions on Trainer's behalf. For each question, provide the name, title, area of

responsibility, current address, and telephone number of all persons consulted in preparation of the answers.

**RESPONSE:** The person answering these questions on behalf of Trainer is Nick Garavelas, President, Trainer Industries, LLC, 200 Price Street, P.O. Box 430, Trainer, PA 19061, Phone 610-494-9000, with assistance of counsel. The person answering these questions on behalf of SPI is Nick Garavelas, President, Service Painting, Inc., 200 Price Street, Trainer, PA 19061, Phone 610-497-4700, with assistance of counsel.

11. If any of the documents solicited in this information request are no longer available, please indicate the reason why they are no longer available. If the records were destroyed, provide us with the following:
  - a. Your document retention policy;
  - b. A description of how the records were/are destroyed (burned, archived, trashed, etc.);
  - c. The approximate date of destruction;
  - d. A description of information that would have been contained in the documents; and,
  - e. The name, job title, and most current address known to you of the person(s) who would have produced these documents; the person(s) who would have been responsible for the retention of these documents; and the person(s) who would have been responsible for the destruction of these documents.

**RESPONSE:** SPI and Trainer do not have reason to believe that any documents responsive to this information request have been destroyed. SPI and TI each have a policy to retain documents for seven (7) years. These policies are not in writing. After 7 years, records for both SPI and Trainer are disposed of in the trash. SPI and Trainer cannot specifically recall the last date on which documents were disposed of under their respective document retention policies. However, because SPI did not begin performing the sandblasting or painting on the Property until 2008, SPI has reason to believe that the documents provided with this response are a complete set of documents.

12. If you have any information about other parties who may have information which may assist EPA in its investigation of the Site who may be responsible for the generation of, transportation to, or release of contamination at the Site, please provide such information. The information you provide in response to this request should include the party's name, address, type of business, and the reasons why you believe the party may have contributed to the contamination at the Site or may have information regarding the Site.

**RESPONSE:** Neither Trainer nor SPI released any hazardous substances at the Metro Property. Neither Trainer nor SPI has any direct information or direct knowledge about other parties who may be responsible for chemical waste and/or hazardous substances on the Property. However, the Metro Property has previously been categorized by EPA as a Superfund Site for which the former owner of the Metro Property, Metro Container Corporation was responsible, along with other parties who brought wastes to that company for disposal or cleaning of drums. Therefore, EPA may have information on these parties. Under the Agreement and Covenant Not to Sue between EPA and Trainer, Trainer has no liability or responsibility for any hazardous substances disposed of or released at the Metro Property by Metro Container Corporation during its ownership and operation of the site, by Metro Container Corporation or any entity that generated hazardous substances that were delivered, disposed of, or release there.

Certification

With knowledge of the penalties for false statement provided by 18 United States Code 1001 (\$10,000 fine and/or five years imprisonment) and with knowledge that this statement is submitted by me to affect potential action by the Department of Justice, I certify and I believe the above statement is true and that this is a complete statement.

4-18-12

Date

Deborah L. Kennard

Signature

Secretary,  
Trainer Industries, LLC &  
Service Painting, Inc.

PETRIKIN, WELLMAN, DAMICO, BROWN & PETROSA  
A PROFESSIONAL CORPORATION  
ATTORNEYS AND COUNSELORS AT LAW

THE WILLIAM PENN BUILDING  
109 CHESLEY DRIVE  
MEDIA, PA 19063

JOHN W. WELLMAN  
JOSEPH A. DAMICO, JR.  
STEVEN G. BROWN  
DONALD T. PETROSA  
STEVEN A. COHEN  
DENIS M. DUNN\*  
MARK J. CONNOR\*\*  
SUSAN E. LINE BOSWELL  
MARK D. DAMICO  
HOWARD M. BROWN\*

MALCOLM B. PETRIKIN  
(1934-1995)

AREA CODE 610  
565-2670  
FAX 565-0178

October 14, 1998

\*ALSO NEW JERSEY BAR  
\*\*ALSO FLORIDA BAR

e-mail: [sgb@petrikin.com](mailto:sgb@petrikin.com)

PERSONAL AND CONFIDENTIAL

Nick Garavelas and Charles C. Campbell  
c/o Service Painting, Inc.  
231 Wanamaker Avenue  
P.O. Box 86  
Essington, PA 19029

< Dear Nick and Charlie:

Enclosed is a copy of the Certificate of Organization for Trainer Industries, LLC filed with the Commonwealth of Pennsylvania on October 9, 1998.

Very truly yours,

  
Steven G. Brown

SGB:sag  
98081-2  
Enclosure

Microfilm Number \_\_\_\_\_

Filed with the Department of State on \_\_\_\_\_

OCT 09 1998

Entity Number \_\_\_\_\_

COPY

Secretary of the Commonwealth

CERTIFICATE OF ORGANIZATION-DOMESTIC LIMITED LIABILITY COMPANY

DSCB:15-8913 (REV 95)

In compliance with the requirements of 15 Pa.C.S. § 8913 (relating to certificate of organization), the undersigned, desiring to organize a limited liability company, hereby state(s) that:

1. The name of the limited liability company is: Trainer Industries, LLC
2. The (a) address of the limited liability company's initial registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is:

(a) 105 West 2nd Street Essington PA 19029 Delaware  
Number and Street City State Zip County

(b) c/o: \_\_\_\_\_  
Name of Commercial Registered Office Provider County

For a limited liability company represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the limited liability company is located for venue and official publication purposes.

The name and address, including street and number, if any, of each organizer are:

NAME

ADDRESS

Steven G. Brown, Esquire

Petrikina, Wellman, Damico, Brown & Petrosa  
109 Chesley Drive, Media, PA 19063

4. ~~(Strike out if inapplicable)~~ A member's interest in the company is to be evidenced by a certificate of membership interest.

5. ~~(Strike out if inapplicable)~~ Management of the company is vested in a manager or managers.

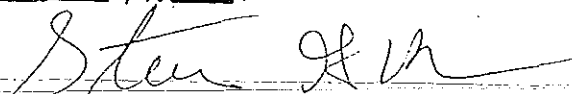
6. The specified effective date, if any is: \_\_\_\_\_  
month day year hour, if any

7. ~~(Strike out if inapplicable)~~ The company is a restricted professional company organized to render the following restricted professional service(s): \_\_\_\_\_

8. For additional provisions of the certificate, if any, attach an 8 1/2 x 11 sheet.

See Attached Sheet.

IN TESTIMONY WHEREOF, the organizer(s) has (have) signed this Certificate of Organization this \_\_\_\_\_ day  
of October, 1998.



(Signature) Steven G. Brown, Esquire

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

ATTACHMENT TO  
CERTIFICATE OF ORGANIZATION--DOMESTIC  
LIMITED LIABILITY COMPANY

8. This Certificate of Organization may be amended in the manner prescribed at the time by statute, and all rights conferred upon members in this Certificate of Organization are granted subject to this reservation.

OCT 09 1998

Vincen Number \_\_\_\_\_

Filed with the Department of State on \_\_\_\_\_

Entity Number \_\_\_\_\_

**COPY**

Secretary of the Commonwealth

**CERTIFICATE OF ORGANIZATION-DOMESTIC LIMITED LIABILITY COMPANY**

OSCE:15-8213 (Rev 95)

In compliance with the requirements of 15 Pa.C.S. § 5913 (relating to certificate of organization), the undersigned, desiring to organize a limited liability company, hereby state(s) that:

1. The name of the limited liability company is: Trainer Industries, LLC
2. The (a) address of the limited liability company's initial registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is:

(a)	105 West 2nd Street	Essexington	PA	19029	Delaware
	Number and Street	City	State	Zip	County

(b) or: \_\_\_\_\_  
Name of Commercial Registered Office Provider County

For a limited liability company represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the limited liability company is located for venue and official publication purposes.

The names and address, including street and number, if any, of each organizer are:

**NAME****ADDRESS**

Steven G. Brown, Esquire

 Patrikin, Wellman, Damico, Brown & Petrosa  
 109 Chesley Drive, Media, PA 19063

4. ~~(STATE OR ANY OTHER ENTITY) A MEMBER OF THE COMPANY IS TO BE EXCLUDED BY, OR EXCLUDED FROM, THE COMPANY.~~

5. ~~(STATE OR ANY OTHER ENTITY) A MEMBER OF THE COMPANY IS TO BE EXCLUDED BY, OR EXCLUDED FROM, THE COMPANY.~~

6. The specified effective date, if any is: \_\_\_\_\_  
month day year hour, if any

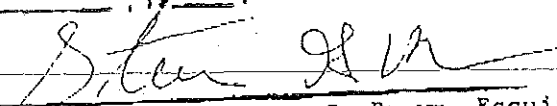
7. ~~(STATE OR ANY OTHER ENTITY) A MEMBER OF THE COMPANY IS TO BE EXCLUDED BY, OR EXCLUDED FROM, THE COMPANY.~~

8. For additional provisions of the certificate, if any, attach an 8 1/2 x 11 sheet.  
See Attached Sheet.

(PA. - LLC 3539 - 7/20/95)

OSC8:15-8913 (Rev 85)-2

IN TESTIMONY WHEREOF, the organizer(s) has (have) signed this Certificate of Organization this \_\_\_\_\_ day  
October, 19 98.

  
(Signature) Steven G. Brown, Esquire

(Signature)

(Signature)

(PA. - LLC 3539)

98081-2 10/7/98 10:26 AM

---

ATTACHMENT TO  
CERTIFICATE OF ORGANIZATION - DOMESTIC  
LIMITED LIABILITY COMPANY

---

8. This Certificate of Organization may be amended in the manner prescribed at the time by statute, and all rights conferred upon members in this Certificate of Organization are granted subject to this reservation.

9377-739

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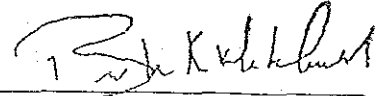
Filed with the Department of State on

NOV 29 1998

Entity Number

2556149

Secretary of the Commonwealth

  
DH

## ARTICLES OF INCORPORATION

DSCB:15-1306 (Rev 89)

The type of domestic corporation is:

☒

Business-stock (15 Pa. C.S. § 1306)

☐ Professional (15 Pa. C.S. § 2903)

1. The name of the corporation is:

SERVICE PAINTING, INC.

This corporation is incorporated under the provisions of the Business Corporation Law of 1988.

2. The address of this corporation's initial registered office in this Commonwealth is:

231 Wanamaker Avenue  
Essington, PA 19029

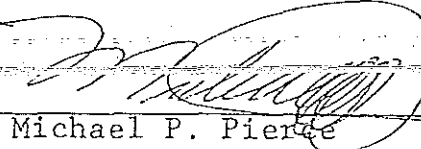
County of Delaware

3. The aggregate number of shares authorized to be issued is:

1,000 Shares Without Par Value

4. The name and address of the incorporator is:

Michael P. Pierce

2002 Sproul Road  
Broomall, PA 19008  
Michael P. Pierce11/23/98  
Date

93 NOV 29 AM 9:49

PA DEPT. OF STATE

6. Location of principal place of business:

231 Wanamaker Avenue  
Essington, PA 19029

Delaware County

7. Mailing address if different than #6 (Location where correspondence, tax report form, etc. are to be sent):

8. Federal Identification Number: to be applied for

9. Act of General Assembly or authority under which you are organized or incorporated (Full Citation of statute or status attach a separate sheet if more space is required):

The Business Corporation Law of 1988

10. Date and state of incorporation or organization (foreign corporation only):

11. Date business started in PA (foreign corporation only):

12. Is the corporation authorized to issue capital stock? ☒ YES ☐ NO

13. Corporation's fiscal year ends: December 31

This statement shall be deemed to have been executed by the individual who executed the accompanying submittal. See 18 PA C.S. § 4904 (relating to unsworn falsification to authorities).

#### INSTRUCTIONS FOR COMPLETION OF FORM:

- A. A separate completed set of copies of this form shall be submitted for each entity or registration resulting from the transaction.
- B. The Bureau of Corporation Taxes in the PA Department of Revenue should be notified of any address changes. Notification should be sent to the Processing Division, Bureau of Corporation Taxes, PA Department of Revenue, Dept. 280705, Harrisburg, PA 17128-0705.
- C. All PA corporate tax reports, except those for motor vehicle for hire, must be filed with the Commonwealth on the same fiscal basis as filed with the U.S. government. Motor vehicle for hire, i.e., gross receipts tax reports, must be filed on a calendar year basis only.

DOCKETING STATEMENT (DSCB:15-134A)  
DEPARTMENTS OF STATE AND REVENUE

FILING FEE: NONE

BUREAU USE ONLY:

Dept. of State Entity Number \_\_\_\_\_

Revenue Box Number \_\_\_\_\_

Filing Period \_\_\_\_\_ Date 3 4 5 \_\_\_\_\_

SIC \_\_\_\_\_ Report Code \_\_\_\_\_

This form (file in triplicate) and all accompanying documents shall be mailed to:

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF STATE  
CORPORATION BUREAU  
308 NORTH OFFICE BUILDING  
HARRISBURG, PA 17120-0029

Check proper box:

☒ Business-stock      ☐ Business-nonstock      ☐ Business-Management      ☐ Professional  
☐ Business-statutory close      ☐ Business-cooperative      ☐ Nonprofit-stock      ☐ Nonprofit-nonstock  
☐ Foreign      ☐ Foreign-nonprofit-stock      ☐ Motor Vehicle for Hire  
☐ Foreign-Limited Certificate of Authority to D/B/A \_\_\_\_\_

Corporation registering as a result of (check box):

☒ Incorporation (PA)      ☐ Domestication      ☐ Consolidation  
☐ Authorization of a foreign corporation      ☐ Division      ☐ Summary of Record

1. Name of corporation:

SERVICE PAINTING, INC.

2. Location of initial registered office in PA:

231 Wanamaker Avenue  
Essington, PA 19029      Delaware County

3. Specified effective date, if applicable: \_\_\_\_\_

4. Describe principal PA activity to be engaged in, within one year of this application date:

painting contracting

5. Names, residences and social security numbers of the chief executive officer, secretary and treasurer:

Name	Address	Title	Social Security #
Nikitas Garavelas	231 Farlamb Avenue Havertown, PA 19083	President	
Charles Curtis Campbell	231 Wanamaker Avenue Essington, PA 19029	Vice President	
Phyliss L. Burke	2057 Kent Road Folcroft, PA 19032	Treasurer	
Phyliss L. Burke	2057 Kent Road Folcroft, PA 19032	Secretary	

# Proof of Publication of Notice in The County Press

Under Newspaper Advertising Act No. 587 May 16, 1929

STATE OF PENNSYLVANIA  
COUNTY OF DELAWARE

No. \_\_\_\_\_ Term, 19\_\_\_\_

Richard L. Crowe, Publisher

\_\_\_\_\_ of THE COUNTY PRESS, of the County and State aforesaid, being duly sworn, deposes and says that THE COUNTY PRESS, a newspaper of general circulation, published at NEWTOWN SQUARE, County and State aforesaid, was established October 1, 1931, and that the printed notice or publication attached hereto is exactly the same as printed and published in the regular editions and issues of the said THE COUNTY PRESS on the following dates viz:

December 22, 1993

Affiant further deposes that he is the proper person duly authorized by THE COUNTY PRESS, publisher of said THE COUNTY PRESS, a newspaper of general circulation, to verify the foregoing statement under oath, and that affiant is not interested in the subject matter of the aforesaid notice or advertisement, and that all allegations in the foregoing statements as to time, place and character of publication are true.

NOTICE  
SERVICE PAINTING, INC. has  
been incorporated under the provisions of the Pennsylvania Business Corporation Law of 1988.

Sereni & Lunardi  
The Marple Commons  
2002 Sprout Road  
Broomall, PA 19008

*[Signature]*

Sworn to and subscribed before me this 22nd  
day of December 1993

*[Signature]*

Notary Public

Notarial Seal  
Elizabeth C. Margerum, Notary Public  
Newtown Township, Delaware County  
My Commission Expires Jan. 27, 1994

My Commission Expires: \_\_\_\_\_

Member, Pennsylvania Association of Notaries

## STATEMENT OF ADVERTISING COSTS

To THE COUNTY PRESS

For publishing the notice or publication attached  
hereto on the above stated dates

\$ \_\_\_\_\_

Probatng same

\$ \_\_\_\_\_

DELAWARE COUNTY BAR ASSOCIATION

Owner and Publisher of

DELAWARE COUNTY LEGAL JOURNAL

PROOF OF PUBLICATION OF NOTICE

STATE OF PENNSYLVANIA  
COUNTY OF DELAWARE } SS:

. Elizabeth J. Anderson, Assistant....., editor of the DELAWARE COUNTY LEGAL JOURNAL, being duly sworn according to law, says that the DELAWARE COUNTY LEGAL JOURNAL is the duly designated legal news-

paper for DELAWARE COUNTY, Pennsylvania; which legal newspaper was established in 1948, and its place of business and publication is at Front and Lemon Streets, Media, Delaware County, Pennsylvania; and that a copy of the printed notice of publication is attached hereto exactly as printed or published in the issue or issues of said legal newspaper on the following date or dates:

COPY OF NOTICE

CHARTER APPLICATION

NOTICE IS HEREBY GIVEN THAT a corporation is to be or has been incorporated under the provisions of the Business Corporation Law of 1988.

SERVICE PAINTING, INC. has been (will be) incorporated under the Pennsylvania Business Corporation Law of 1988.  
SERENI & LUNARDI, Solicitors  
The Marple Commons  
2002 Sprout Road  
Broomall, PA 19008

Friday, December 24 .....  
..... A.D. 19 93 .....

That affiant further states that she/he is the designated agent of the DELAWARE COUNTY BAR ASSOCIATION, the owner of said legal newspaper, that she/he is not interested in the subject matter of the aforesaid notice or advertising, and that all the allegations of the aforesaid statement as to time, place and character of publication are true.

Sworn and subscribed before me this

24th day of December A.D. 19 93

Notary Public

MY COMMISSION EXPIRES:

1 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2 REGION III

3 IN THE MATTER OF: :

4 :  
5 Metro Container Corporation Site :

6 : EPA Docket No. CERC-PPA-99-06  
7 :

8 Trainer Industries, LLC, :

9 :  
10 Settling Respondent :

11 :  
12 :  
13 Under Authority of the Comprehensive :  
14 Environmental Response, Compensation, :  
15 and Liability Act of 1980, as amended, :  
16 42 U.S.C. § 9601, et seq. :  
17 :

18 AGREEMENT AND COVENANT  
19 NOT TO SUE

20 I. INTRODUCTION

21 This Agreement and Covenant Not to Sue ("Agreement") is made and entered into by and  
22 between the United States on behalf of the U.S. Environmental Protection Agency ("EPA") and Trainer  
23 Industries, LLC (collectively the "Parties").

24 This Agreement is entered into pursuant to the Comprehensive Environmental Response,  
25 Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. § 9601, et seq. and  
26 the authority of the Attorney General of the United States to compromise and settle claims of the United  
27 States.

28 Settling Respondent Trainer Industries, LLC is a Pennsylvania limited liability company formed

1 for the purpose of acquiring the Property, as defined below. The Metro Container Corporation Site  
2 ("Site") is located at West Second Street and Price Road in Trainer Borough, Delaware County,  
3 Pennsylvania. The Site is currently owned by Metro Container Corporation ("Metro") in trust for the  
4 benefit of creditors and interest holders of the bankruptcy estate of Metro in accordance with a plan  
5 approved by the United States Bankruptcy Court for the District of Delaware in September 1988.  
6 Settling Respondent intends to construct an office building and warehouse for operations and storage of  
7 equipment, paints, and paint-related materials. Thinners and solvents will be stored in a separate  
8 location within the warehouse space in an area designed with secondary containment. Diesel fuel to  
9 operate compressors will be stored outside the warehouse in a 500-gallon above-ground storage tank  
10 in an area designed with secondary containment. The warehouse will contain separate areas designated  
11 as abrasive blast and paint shops.

12 The Parties agree to undertake all actions required by the terms and conditions of this  
13 Agreement. The purpose of this Agreement is to settle and resolve, subject to reservations and  
14 limitations contained in Sections VII, VIII, IX, and X the potential liability of the Settling Respondent  
15 for the Existing Contamination at the Property which would otherwise result from Settling Respondent  
16 becoming the owner of the Property.

17 The Parties agree that the Settling Respondent's entry into this Agreement, and the actions  
18 undertaken by the Settling Respondent in accordance with the Agreement, do not constitute an  
19 admission of any liability by the Settling Respondent.

20 The resolution of this potential liability, in exchange for provision by the Settling Respondent to

1 EPA of a substantial benefit, is in the public interest.

## 2 II. DEFINITIONS

3 Unless otherwise expressly provided herein, terms used in this Agreement which are defined in  
4 CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in  
5 CERCLA or in such regulations, including any amendments thereto.

6 1. "EPA" shall mean the United States Environmental Protection Agency and any successor  
7 departments or agencies of the United States.

8 2. "Existing Contamination" shall mean any hazardous substances, pollutants or contaminants,  
9 present or existing on or under the Site as of the effective date of this Agreement.

10 3. "Parties" shall mean EPA and the Settling Respondent.

11 4. "Property" shall mean that portion of the Site which is described in Exhibit 1 of this  
12 Agreement.

13 5. "Settling Respondent" shall mean Trainer Industries, LLC.

14 6. "Site" shall mean the Metro Container Site located at and near the intersection of West  
15 Second Street and Price Road in Trainer Borough, Delaware County, Pennsylvania and depicted  
16 generally on the map attached as Exhibit 2. The Site shall include the Property, and all areas to which  
17 hazardous substances and/or pollutants or contaminants, have come to be located.

18 7. "United States" shall mean the United States of America, its departments, agencies, and  
19 instrumentalities.

### **III. STATEMENT OF FACTS**

8. Between approximately 1920 and 1959, the Stauffer Chemical Company manufactured sulfuric acid and other chemicals at the Site. In 1963, the Joseph Reiss Company purchased the Site and erected and operated a steel drum recycling facility. Operations were taken over by the Universal Container Corporation, which eventually purchased the facility. In or around 1983, Universal Container Corporation changed ownership and its name to Metro Container Corporation. Drum recycling operations continued at the Site until approximately 1987. A Site Inspection by EPA in 1987 revealed an open cement lagoon nearly overflowing with waste sludges, numerous 55-gallon drums containing sludges, and approximately 60,000 unreclaimed drums. Metro Container Corporation filed a petition for bankruptcy in April 1988. A plan of reorganization through liquidation was approved by the Bankruptcy Court in September 1988. In 1989-1990, several responsible parties disposed of thousands of contaminated drums, sludges, liquids, and soils removed from the Site under EPA Administrative Order on Consent No. III-89-11-DC. In or around July 1990, EPA conducted further actions to remove and dispose of several contaminated drums unearthed during regrading operations. Under the approved liquidation plan, the Site remained the property of the debtor estate and continues up to the present to be property of the debtor estate. Wilmington Trust Company holds several mortgages on the Site property. Settling Respondent intends to purchase these mortgages from Wilmington Trust Company and foreclose on such mortgages or procure a deed in lieu of foreclosure

1 from Metro or from the bankruptcy estate to secure title to the Property. No proceeds of the sale will  
2 will paid to the current owner.

3 9. The Settling Respondent represents, and for the purposes of this Agreement EPA relies on  
4 those representations, that Settling Respondent's involvement with the Property and the Site has been  
5 limited to the performance, by a contractor retained by Settling Respondent, of an Environmental Site  
6 Assessment which included, among other actions, a review of historical maps and photographs, file  
7 review at EPA and the Pennsylvania Department of Environmental Protection, collection and analysis of  
8 samples, and a ground penetrating radar survey.

#### 9 IV. PAYMENT

10 10. In consideration of and in exchange for the United States' Covenant Not to Sue in Section  
11 VIII herein, Settling Respondent agrees to pay to EPA the sum of \$15,000.00 within thirty (30) days  
12 of the effective date of this Agreement. The Settling Respondent shall make all payments required by  
13 this Agreement in the form of a certified check or checks made payable to the "EPA Hazardous  
14 Substance Superfund." Each such check shall contain Settling Respondent's name and address and the  
15 following information:

16 "EPA Docket No. III-98-015-DC"  
17 "Site/Spill ID# 03BQ"  
18 "DOJ case number 90-11-2-979A"

19 Payment shall be forwarded to:

20 U.S. Environmental Protection Agency

Region III  
Superfund Accounting  
Box 360515  
Pittsburgh, PA 15251-6515

Notice of payment and a copy of the check shall be sent to those persons listed in Section XV (Notices and Submissions) and to the EPA Region III comptroller's office at the following address:

Office of the Regional Comptroller(3PM30)  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103

and to the Docket Clerk at the following address:

Docket Clerk (3RC00)  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103

11. Amounts due and owing pursuant to the terms of this Agreement but not paid in accordance with the terms of this Agreement shall accrue interest at the rate established pursuant to Section 107(a) of CERCLA, 42 U.S.C. § 9607(a), compounded on an annual basis.

#### **V. ACCESS AND NOTICE TO SUCCESSORS IN INTEREST**

12. Commencing upon the date that it acquires title to the Property, Settling Respondent agrees to provide to EPA its authorized officers, employees, representatives, and all other persons

1 performing response actions under EPA oversight, an irrevocable right of access at all reasonable times  
2 to the Property and to any other property to which access is required for the implementation of  
3 response actions at the Site, to the extent access to such other property is controlled by the Settling  
4 Respondent, for the purposes of performing and overseeing response actions at the Site under federal  
5 law. EPA agrees to provide reasonable notice to the Settling Respondent of the timing of response  
6 actions to be undertaken at the Property. Notwithstanding any provision of this Agreement, EPA  
7 retains all of its access authorities and rights, including enforcement authorities related thereto, under  
8 CERCLA, the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery  
9 Act, 42 U.S.C. § 6901, et. seq. ("RCRA"), and any other applicable statute or regulation, including  
10 any amendments thereto.

11 13. Settling Respondent agrees that:

12 (a) Within thirty (30) days after the effective date of this Agreement, the Settling Respondent  
13 shall record a notice of the existence of this Agreement with the Recorder's Office (or Registry of  
14 Deeds or other appropriate office), Delaware County, Pennsylvania. A copy of this Agreement shall  
15 be attached to such notice. Thereafter, each deed, title, or other instrument conveying an interest in the  
16 Property shall contain a notice stating that the Property is subject to this Agreement. A copy of these  
17 documents shall be sent to the persons listed in Section XV (Notices and Submissions).

18 (b) The Settling Respondent shall ensure that assignees, successors in interest, lessees, and  
19 sublessees, of the Property shall provide the same access and cooperation. The Settling Respondent  
20 shall ensure that a copy of this Agreement is provided to any current lessee or sublessee on the

1 Property as of the effective date of this Agreement and shall ensure that any subsequent leases,  
2 subleases, assignments or transfers of the Property or an interest in the Property are consistent with this  
3 Section, and Section XI (Parties Bound/Transfer of Covenant), of the Agreement.

## 4 VI. DUE CARE/COOPERATION

5 14. The Settling Respondent shall exercise due care at the Site with respect to the Existing  
6 Contamination and shall comply with all applicable local, State, and federal laws and regulations. The  
7 Settling Respondent recognizes that the implementation of response actions at the Site may interfere  
8 with the Settling Respondent's use of the Property, and may require closure of its operations or a part  
9 thereof. The Settling Respondent agrees to cooperate fully with EPA in the implementation of response  
10 actions at the Site and further agrees not to interfere with such response actions. EPA agrees,  
11 consistent with its responsibilities under applicable law, to use reasonable efforts to minimize any  
12 interference with the Settling Respondent's operations by such entry and response. In the event the  
13 Settling Respondent becomes aware of any action or occurrence which causes or threatens a release of  
14 hazardous substances, pollutants or contaminants at or from the Site that constitutes an emergency  
15 situation or may present an immediate threat to public health or welfare or the environment, Settling  
16 Respondent shall immediately take all appropriate action to prevent, abate, or minimize such release or  
17 threat of release, and shall, in addition to complying with any applicable notification requirements under  
18 Section 103 of CERCLA, 42 U.S.C. § 9603, or any other law, immediately notify EPA of such release  
19 or threatened release.

**VII. CERTIFICATION**

15. By entering into this agreement, the Settling Respondent certifies that to the best of its knowledge and belief it has fully and accurately disclosed to EPA all information known to Settling Respondent and all information in the possession or control of its officers, directors, employees, contractors, and agents which relates in any way to any Existing Contamination or any past or potential future release of hazardous substances, pollutants or contaminants at or from the Site and to its qualification for this Agreement. The Settling Respondent also certifies that to the best of its knowledge and belief it has not caused or contributed to a release or threat of release of hazardous substances or pollutants or contaminants at the Site. If the United States determines that information provided by Settling Respondent is not materially accurate and complete, the Agreement, within the sole discretion of the United States, shall be null and void and the United States reserves all rights it may have.

**VIII. UNITED STATES' COVENANT NOT TO SUE**

16. Subject to the Reservation of Rights in Section IX of this Agreement, upon payment of the amount specified in Section IV (Payment), the United States covenants not to sue or take any other civil or administrative action against Settling Respondent for any and all civil liability for injunctive relief or reimbursement of response costs pursuant to Sections 106 or 107(a) of CERCLA, 42 U.S.C. §§ 9606 or 9607(a), with respect to the Existing Contamination.

**IX. RESERVATION OF RIGHTS**

1           17. The covenant not to sue set forth in Section VIII above does not pertain to any matters  
2           other than those expressly specified in Section VIII (United States' Covenant Not to Sue). The United  
3           States reserves and the Agreement is without prejudice to all rights against Settling Respondent with  
4           respect to all other matters, including but not limited to, the following:

5           (a) claims based on a failure by Settling Respondent to meet a requirement of this Agreement,  
6           including but not limited to Section IV (Payment), Section V (Access/Notice to Successors in Interest),  
7           Section VI (Due Care/Cooperation), and Section XIV (Payment of Costs);

8           (b) any liability resulting from past or future releases of hazardous substances, pollutants or  
9           contaminants, at or from the Site caused or contributed to by Settling Respondent, its successors,  
10          assignees, lessees or sublessees;

11          (c) any liability resulting from exacerbation by Settling Respondent, its successors, assignees,  
12          lessees or sublessees, of Existing Contamination;

13          (d) any liability resulting from the release or threat of release of hazardous substances,  
14          pollutants or contaminants, at the Site after the effective date of this Agreement, not within the definition  
15          of Existing Contamination;

16          (e) criminal liability;

17          (f) liability for damages for injury to, destruction of, or loss of natural resources, and for the  
18          costs of any natural resource damage assessment incurred by federal agencies other than EPA; and

19          (g) liability for violations of local, State, or federal law or regulations.

20          18. With respect to any claim or cause of action asserted by the United States, the Settling

1 Respondent shall bear the burden of proving that the claim or cause of action, or any part thereof, is  
2 attributable solely to Existing Contamination.

3 19. Nothing in this Agreement is intended as a release or covenant not to sue for any claim or  
4 cause of action, administrative or judicial, civil or criminal, past or future, in law or in equity, which the  
5 United States may have against any person, firm, corporation, or other entity not a party to this  
6 Agreement.

7 20. Nothing in this Agreement is intended to limit the right of EPA to undertake future response  
8 actions at the Site or to seek to compel parties other than the Settling Respondent to perform or pay for  
9 response actions at the Site. Nothing in this Agreement shall in any way restrict or limit the nature or  
10 scope of response actions which may be taken or be required by EPA in exercising its authority under  
11 federal law. Settling Respondent acknowledges that it is purchasing property where response actions  
12 may be required.

13 **X. SETTLING RESPONDENT'S COVENANT NOT TO SUE**

14 21. In consideration of the United States' Covenant Not To Sue in Section VIII of this  
15 Agreement, the Settling Respondent hereby covenants not to sue and not to assert any claims or causes  
16 of action against the United States, its authorized officers, employees, or representatives with respect to  
17 the Site or this Agreement, including but not limited to, any direct or indirect claims for reimbursement  
18 from the Hazardous Substance Superfund established pursuant to the Internal Revenue Code, 26  
19 U.S.C. § 9507, through CERCLA Sections 106(b)(2), 111, 112, 113, or any other provision of law,

1 any claim against the United States, including any department, agency or instrumentality of the United  
2 States under Sections 107 or 113 of CERCLA related to the Site, or any claims arising out of response  
3 activities at the Site, including claims based on EPA's oversight of such activities or approval of plans  
4 for such activities.

5 22. The Settling Respondent reserves, and this Agreement is without prejudice to, actions  
6 against the United States based on negligent actions taken directly by the United States, not including  
7 oversight or approval of the Settling Respondent's plans or activities, that are brought pursuant to any  
8 statute other than CERCLA or RCRA and for which the waiver of sovereign immunity is found in a  
9 statute other than CERCLA or RCRA. Nothing herein shall be deemed to constitute preauthorization  
10 of a claim within the meaning of Section 111 of CERCLA, 42 U.S.C. § 9611, or 40 C.F.R. §  
11 300.700(d).

## 12 **XI. PARTIES BOUND/TRANSFER OF COVENANT**

13 23. This Agreement shall apply to and be binding upon the United States and shall apply to and  
14 be binding on the Settling Respondent, its officers, directors, employees, and agents. The undersigned  
15 representative of Settling Respondent certifies that he or she is fully authorized to enter into the terms  
16 and conditions of this Agreement and to legally bind such Settling Respondent.

17 24. Notwithstanding any other provisions of this Agreement, all of the rights, benefits and  
18 obligations conferred upon Settling Respondent under this Agreement may be assigned or transferred to  
19 any person with the prior written consent of EPA in its sole discretion, which consent will not be

1 unreasonably withheld.

2 25. The Settling Respondent agrees to pay the reasonable costs incurred by EPA to review  
3 any subsequent requests for consent to assign or transfer the benefits conferred by this Agreement.

4 26. In the event of an assignment or transfer of the Property or an assignment or transfer of an  
5 interest in the Property, the assignor or transferor shall continue to be bound by all the terms and  
6 conditions, and subject to all the benefits, of this Agreement except as EPA and the assignor or  
7 transferor agree otherwise and modify this Agreement, in writing, accordingly. Moreover, prior to or  
8 simultaneous with any assignment or transfer of the Property, the assignee or transferee must consent in  
9 writing to be bound by the terms of this Agreement including but not limited to the certification  
10 requirement in Section VII of this Agreement in order for the Covenant Not to Sue in Section VIII to  
11 be available to that party. The Covenant Not To Sue in Section VIII shall not be effective with respect  
12 to any assignees or transferees who fail to provide such written consent to EPA.

## 13 **XII. DISCLAIMER**

14 27. This Agreement in no way constitutes a finding by EPA as to the risks to human health and  
15 the environment which may be posed by contamination at the Property or the Site nor constitutes any  
16 representation by EPA that the Property or the Site is fit for any particular purpose.

## 17 **XIII. DOCUMENT RETENTION**

18 28. The Settling Respondent agrees to retain and make available to EPA all business and

operating records, contracts, site studies and investigations, and documents relating to operations at the Property for at least ten (10) years following the effective date of this Agreement unless otherwise agreed to in writing by the Settling Respondent and EPA. At the end of ten years, the Settling Respondent shall notify EPA of the location of such documents and shall provide EPA with an opportunity to copy any documents at the expense of EPA.

#### **XIV. PAYMENT OF COSTS**

29. If the Settling Respondent fails to comply with the terms of this Agreement, including, but not limited to, the provisions of Section IV (Payment) of this Agreement, it shall be liable for all litigation and other enforcement costs incurred by the United States to enforce this Agreement or otherwise obtain compliance.

#### **XV. NOTICES AND SUBMISSIONS**

30. All notices and submissions provided pursuant to this Agreement shall be forwarded to:

Cornelius Carr (3HS00)  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103

and

Andrew S. Goldman (3RC21)  
U.S. Environmental Protection Agency  
Region III

1 1650 Arch Street  
2 Philadelphia, PA 19103

3 **XVI. EFFECTIVE DATE**

4 31. The effective date of this Agreement shall be the date upon which EPA issues written  
5 notice to the Settling Respondent that the public comment period has closed and the United States  
6 consents to the Agreement.  
7

8 **XVII. TERMINATION**

9 32. If Settling Respondent or EPA believes that any or all of the obligations under Section V  
10 (Access and Notice to Successors in Interest) are no longer necessary to ensure compliance with the  
11 requirements of the Agreement, such party may request in writing that the other party agree to terminate  
12 the provision(s) establishing such obligations; provided, however, that the provision(s) in question shall  
13 continue in force unless and until the party requesting such termination receives written agreement from  
14 the other party to terminate such provision(s).

15 **XVIII. CONTRIBUTION PROTECTION**

16 33. With regard to claims for contribution against Settling Respondent, the Parties hereto agree  
17 that the Settling Respondent is entitled to protection from contribution actions or claims as provided by  
18 Section 113(f)(2) of CERCLA, 42 U.S.C. § 9613(f)(2), for matters addressed in this Agreement. The

1 matters addressed in this Agreement are all response actions taken or to be taken and response costs  
2 incurred or to be incurred by the United States or any other person for the Site with respect to the  
3 Existing Contamination.

4 34. The Settling Respondent agrees that with respect to any suit or claim for contribution  
5 brought by it for matters related to this Agreement it will notify the United States in writing no later than  
6 sixty (60) days prior to the initiation of such suit or claim.

7 35. The Settling Respondent also agrees that with respect to any suit or claim for contribution  
8 brought against it for matters related to this Agreement it will notify in writing the United States within  
9 ten (10) days of service of the complaint on it.

10  
11 **XIX. EXHIBITS**

12 36. Exhibit 1 shall mean a deed of the Property which is the subject of this Agreement.

13 37. Exhibit 2 shall mean the map depicting the Site.

14  
15 **XX. PUBLIC COMMENT**

16 38. This Agreement shall be subject to a thirty (30) day public comment period, after which the  
17 United States may modify or withdraw its consent to this Agreement if comments received disclose  
18 facts or considerations which indicate that this Agreement is inappropriate, improper, or inadequate.

1     **IT IS SO AGREED.**

2     **FOR EPA:**

3     \_\_\_\_\_  
4     W. Michael McCabe  
5     Regional Administrator  
6     U.S. Environmental Protection Agency  
7     Region III

\_\_\_\_\_  
Date

8     \_\_\_\_\_  
9     Andrew S. Goldman  
10    Sr. Assistant Regional Counsel  
11    U.S. Environmental Protection Agency  
12    Region III

\_\_\_\_\_  
Date

13    **APPROVAL BY THE UNITED STATES**  
14    **DEPARTMENT OF JUSTICE:**

1 \_\_\_\_\_ Date \_\_\_\_\_  
2 Lois J. Schiffer  
3 Assistant Attorney General  
4 Environment and Natural Resources Division  
5 U.S. Department of Justice

6 **FOR THE SETTLING RESPONDENT:**

7 \_\_\_\_\_ Date \_\_\_\_\_  
8

9 Name: \_\_\_\_\_

10 Position/Title: \_\_\_\_\_

PURCHASE, ASSIGNMENT AND ASSUMPTION AGREEMENT

11/6  
C.C.C.  
This Purchase, Assignment And Assumption Agreement (this "Agreement") is made as  
of this 24<sup>th</sup> day of <sup>May</sup>~~April~~ 1999, by and between Wilmington Trust Company (the "Bank") and  
Trainer Industries, LLC (the "Buyer").

BACKGROUND

A. Bank made various loans to Metro Container Corp. ("Metro Container") and Metro-Enterprise Container Corp. ("Metro-Enterprise").

B. Metro Container and/or Metro-Enterprise operated its business from the real estate in the Borough of Trainer, Delaware County, Commonwealth of Pennsylvania, as more particularly described on Exhibit "A" which is attached hereto and incorporated herein by reference (the "Premises").

C. Seller has agreed to sell, transfer, convey, set over and assign to Buyer, and Buyer has agreed to purchase from the Seller all of Seller's right, title and interest "as is-where is" in certain Loan Documents (as hereinafter described and defined).

NOW, THEREFORE, in consideration of the mutual covenants contained and for good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the parties hereto, intending to be legally bound, hereby agree as follows:

**1. Purchase And Sale.**

a. Bank agrees to sell, transfer, set over and assign to Buyer all of Bank's right, title and interest in and to the Loan Documents (as described and defined below) and any judgments entered thereunder in favor of Bank, if any, which sale, transfer and assignment Buyer hereby agrees to accept. In exchange for such sale, transfer, assignment and assumption, Buyer agrees to pay to Bank the sum of Eighty Thousand Dollars (\$80,000.00) payable in full at Closing (hereinafter defined) on this Agreement (the "Purchase Price"). BANK'S SALE, TRANSFER AND ASSIGNMENT OF ITS INTEREST IN THE LOAN DOCUMENTS SHALL BE WITHOUT RECOURSE AND WITHOUT REPRESENTATION (EXPRESSED OR IMPLIED) OF ANY KIND OR NATURE EXCEPT AS SPECIFICALLY SET FORTH IN THIS AGREEMENT.

(NG CCS.) Buyers' Initials

b. The loans and Loan Documents (as hereinafter defined) that are the subject of this Agreement are as follows:

(1) that certain term note in the original principal sum of \$400,000.00 dated December 21, 1983, by Metro Container as Maker in favor of Bank (the "1983

\$400,000.00 Note"), that certain revolving credit loan note in the original principal sum of \$300,000.00 dated December 21, 1983, by Metro Container as Maker in favor of Bank (the "1983 \$300,000.00 Note") and secured by that certain Mortgage dated December 21, 1983, given by Metro Container in favor of Bank on the Premises which was recorded on or about December 29, 1983, in the Recorder of Deeds Office for the County of Delaware, Commonwealth of Pennsylvania in Volume 128 at Page 2159 *et seq.* in the principal sum of \$700,000.00 (the "1983 \$700,000 Mortgage") which secures, *inter alia*, the 1983 \$400,000 Note;

(2) that certain Loan Agreement dated January 16, 1986, by and between Metro-Enterprise as Debtor and Bank relating to certain loans made to Metro-Enterprise (the "January 1986 Metro-Enterprise Loan Agreement") evidenced by that certain Commercial Note dated January 16, 1986, by Metro-Enterprise as Maker in the principal sum of \$350,000.00 (the "\$350,000 Metro-Enterprise Note") in favor of Bank and that certain Line of Credit Note dated January 16, 1986, by and between Metro-Enterprise as Maker in the principal amount of \$150,000.00 (the "\$150,000 Metro-Enterprise Line") in favor of Bank, that certain Guarantee made by Metro Container to the Bank dated January 16, 1986 (the "Jan. 1986 Metro Guaranty") and that certain Mortgage dated January 16, 1986 given by Metro Container against the Premises which was recorded on or about January 22, 1986, in the Recorder of Deeds Office for the County of Delaware, Commonwealth of Pennsylvania in Volume 304 at Page 1163 *et seq.* in the principal sum of \$500,000.00 (the "1986 \$500,000 Mortgage") which secures the Jan. 1986 Metro Container Guarantee;

(3) that certain Loan Agreement dated October 6, 1986, by and between Metro Container as Debtor and Bank relating to that certain loan made to Metro Container (the "October 1986 Metro Container Loan Agreement") evidenced by that certain Commercial Note dated October 6, 1986, by Metro Container as Maker in the principal sum of \$400,000.00 (the "\$400,000 Metro Container Note") in favor of Bank;

(4) that certain Loan Agreement dated October 6, 1986, by and between Metro-Enterprise as Debtor and Bank relating to that certain loan made to Metro-Enterprise (the "October 1986 Metro-Enterprise Loan Agreement") evidenced by that certain Commercial Note dated October 6, 1986, by Metro-Enterprise as Maker in the principal sum of \$150,000.00 (the "\$150,000 Metro-Enterprise Note") in favor of Bank and that certain Guarantee made by Metro Container dated October 6, 1986 (the "October 1986 Metro Container Guarantee"); and

(5) that certain \$400,000 Metro Container Note and the October 1986 Metro Container Guarantee are secured by that certain Mortgage dated October 6, 1986, given by Metro Container against the Premises which was recorded on or about October 20, 1986, in the Recorder of Deeds Office for the County of Delaware, Commonwealth of Pennsylvania in Volume 391 at Page 1391 *et seq.* in the principal sum of \$550,000.00 (the "1986 \$550,000 Mortgage");

(6) The 1983 \$400,000.00 Note, the 1983 \$700,000 Mortgage, the January 1986 Metro-Enterprise Loan Agreement, the \$350,000 Metro-Enterprise Note, \$150,000

Metro-Enterprise Line, the 1986 \$500,000 Mortgage, the Jan. 1986 Metro Container Guarantee, the October 1986 Metro Container Loan Agreement, the \$400,000 Metro Container Note, the October 1986 Metro-Enterprise Loan Agreement, the \$150,000 Metro-Enterprise Note, the October 1986 Metro Container Guarantee and the 1986 \$550,000 Mortgage are hereinafter collectively referred to as the "Loan Documents."

(7) Bank specifically states that it does not assign its rights title and interest to Buyer as it relates to the personal guarantees of Elsie Maslow, Lewis Maslow, Sidney S. Levy and/or Reba Levy and does hereby exclude from this Agreement the personal guarantees of Elsie Maslow, Lewis Maslow, Sidney S. Levy and/or Reba Levy.

c. At closing, Buyer shall pay to the Seller by cash, wire transfer or by cashier's check the Purchase Price (the "Closing").

## 2. Representations And Warranties.

a. Bank represents and warrants the following:

(1) Attached hereto and incorporated herein as Exhibit "B" is a list of all of the Loan Documents that the Bank intends to assign to the Buyer and true and correct copies of same are being delivered or have been delivered to Buyer prior to or upon the execution of this Agreement.

(2) Bank is the sole owner of all right, title and interest as Bank, mortgagee and/or assignee, as appropriate, under the Loan Documents.

(3) To the best of the Bank's knowledge, no order was entered by the United States Bankruptcy Court For The District of Delaware in either the bankruptcy case of Metro Container assigned case number 87-520 and/or Metro-Enterprises assigned case number 87-521 against the Bank prohibiting the Bank from foreclosing on its security interest on the Premises that is the subject of this Agreement.

(4) Bank has not entered into any agreement (oral or written) for the transfer, sale or assignment of Bank's interest in the Loan Documents, nor has Bank granted any options to any other person or entity to purchase or receive an assignment of Bank's right, title and interest in and to the Loan Documents.

(5) The Loan Documents were duly executed on behalf of the Bank and the parties who executed the Loan Documents on behalf of the Bank were authorized to do so.

(6) This Agreement has been approved for execution by all necessary corporate action and the parties executing on behalf of the Bank have been duly authorized to do so.

(7) The person(s) executing this Agreement on behalf of Bank is authorized to bind the Bank. All actions of Bank and other authorizations necessary or appropriate for the execution and delivery and compliance with this Agreement have been taken or obtained and, upon the execution of this Agreement and other documents and instruments contemplated by this Agreement, if any, shall constitute the valid and legally binding obligations of the Bank, enforceable against the Bank in accordance with their respective terms.

(8) EXCEPT AS SET FORTH IN SECTION 2 OF THIS AGREEMENT: (i) BANK DOES NOT MAKE ANY REPRESENTATIONS OR WARRANTIES REGARDING THE LOAN DOCUMENT PURCHASE, EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY WITH RESPECT TO ANY MATTERS NOT SPECIFICALLY ENUMERATED IN THE REPRESENTATIONS AND WARRANTIES OF BANK SET FORTH IN THIS SECTION; AND (ii) BANK EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE VALIDITY, ENFORCEABILITY, LEGALITY, SUFFICIENCY, AUTHENTICITY OR ACCURACY OR (AS THE CASE MAY BE) THE EXISTENCE, GOOD STANDING OR AUTHORIZATION TO ACT OF ANY OF THE INTERESTS SUBJECT TO THE LOAN DOCUMENT PURCHASE; AND (iii) THE SALE, TRANSFER AND/OR ASSIGNMENT OF THE LOAN DOCUMENTS IS MADE "AS IS-WHERE IS" AND "WITH ALL FAULTS."

MA CCC. Buyers' initials

b. Buyer represents and warrants the following:

(1) Buyer is a limited liability company duly organized and validly existing under the laws of the Commonwealth of Pennsylvania and has the requisite power and authority to enter into and consummate the transaction contemplated by this Agreement;

(2) The person(s) executing this Agreement on behalf of Buyer is authorized to bind Buyer. All actions of Buyer and other authorizations necessary or appropriate for the execution and delivery of and compliance with this Agreement have been taken or obtained and, upon their execution, this Agreement and other documents and instruments contemplated by this Agreement, if any, shall constitute the valid and legally binding obligations of Buyer, enforceable against Buyer in accordance with their respective terms.

(3) The transfer of the Loan Documents and any judgments entered thereunder in favor of the Bank, if any, will be irrevocable and without any recourse to Bank except with respect to breach of Bank's, representations and warranties contained in Section 2 of this Agreement and is without any other representation and warranty, express or implied, and is "as is-where is" and "with all faults."

(a) Liability(ies), if any, arising from a breach of any and all of the Bank's obligations, representations and warranties contained in this Agreement will be capped at the maximum aggregate amount of \$80,000.00.

(4) Buyer did not rely upon any statement or writing or other communication made to it by Bank or any of Bank's officers, employees, affiliates, agents, representatives, parent corporations, subsidiaries or attorneys in connection with its purchase of the Loan Documents and Buyer acknowledges that the only representation and warranties given to it by Bank in connection with the Loan Documents are contained in Section 2 of this Agreement.

(5) Buyer hereby specifically waives any and all of its rights arising from this Agreement and/or the Loan Documents to cause or actually institute an action or otherwise pursue the individual principals of Metro Container and/or Metro Enterprise or the guarantors of Metro Container and/or Metro Enterprise, including, but not limited to, Elsie Maslow, Lewis Maslow, Sidney S. Levy, and/or Reba Levy.

3. Contingencies. Buyer's obligation to pay for the Loan Documents is conditioned and contingent upon the satisfaction of the following:

a. Buyer shall be given a period of ninety (90) days after full execution of this Agreement (the "Due Diligence Period") within which to review copies of the Loan Documents that Bank or Bank's counsel has forwarded to Buyer's counsel. Also during the Due Diligence Period, Buyer shall have an opportunity to perform whatever environmental inspections and testing Buyer deems appropriate with regard to the Premises at Buyer's sole cost and expense. The Bank consents to the Buyer's representatives in having access to the Premises for the

aforementioned inspections and testing. The Buyer acknowledges and understands that the Bank is not the owner or operator of the Premises nor is the Bank either in control or in possession of the Premises and Buyer enters the Premises at the Buyer's own risk.

b. Buyer agrees that the Premises shall be restored as nearly as possible to its prior condition, subsequent to any such testing. Buyer shall repair promptly any damage caused by Buyer's and/or Buyer's consultants' inspections of the Premises.

c. Prior to Buyer's entry onto the Premises, Buyer shall provide to Bank a Certificate of Insurance that Buyer or any of the Buyer's consultants have general liability coverage in the amount of not less than \$1,000,000 per occurrence and that Bank and Buyer have been named as additional insureds.

d. Buyer shall indemnify, defend and hold Bank harmless from, against and in respect of any and all claims, losses, obligations, liabilities, charges, costs and expenses (including reasonable attorneys' fees and court costs) arising from or relating to Buyer's and/or Buyer's consultants' inspections of the Premises.

e. Buyer may, by giving written notice to Bank within five (5) business days after the expiration of the Due Diligence Period, elect to terminate this Agreement for any reason, whereupon neither party shall have any further rights or obligations hereunder, one to the other and this Agreement shall be deemed null and void. If Buyer terminates this Agreement, any

documentation and/or written material received by the Buyer or Buyer's counsel from the Bank or Bank's counsel must be immediately returned to the Bank or Bank's counsel. Failure of Buyer to give notice to Bank as aforesaid, shall be deemed an election to proceed with this Agreement.

#### 4. Indemnification.

a. Buyer hereby agrees at its sole expense to indemnify, protect, defend and hold harmless the Bank from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation, attorneys' and experts' fees, expenses and disbursements) of any kind or nature whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against the Bank, whether before, during or after Closing, relating to, resulting from or arising out of or in any relation to (i) acts or conduct of the Buyer under, pursuant to or related to this Agreement and/or the Loan Documents; (ii) Buyer's breach or violation of any representation, warranty, covenant or undertaking contained in this Agreement; (iii) Buyer's, Metro Container's, Metro-Enterprise's and/or any related entity's, principle's, agent's guarantor's employee's, consultant's of Metro Container or Metro Enterprise failure to comply with any or all laws, statutes, ordinances, governmental rules, regulations or standards, whether federal, state or local, or court or administrative orders or decrees, including without limitation those resulting from any hazardous materials and/or substances or dangerous environmental conditions within, on, from, related to or affecting the Premises; (iv) the use of the Premises for the storage, treatment, generation, transportation, processing, handling, production or disposal of any hazardous materials and/or substances or as a

landfill or other waste disposal site or for military, manufacturing or industrial purposes; (v) the presence of any hazardous materials and/or substances or a release or the threat of a release on, at or from the Premises; (vi) the failure to promptly undertake and diligently pursue to completion all necessary, appropriate and legally authorized investigative, containment, removal, clean up and other remedial actions with respect to a release or the threat of a release on, at or from the Premises; (vii) human exposure to any hazardous materials and/or substances, noises, vibrations or nuisances of whatever kind to the extent the same arise from the condition of the Premises or the ownership, use, operation, sale, transfer or conveyance thereof; (viii) violation of any applicable environmental law or ordinance or regulation; (ix) non-compliance with any environmental permit; or (x) any other circumstance which might otherwise give rise to a claim, demand and/or action from any individual, governmental agency, administrative body, entity or any other person against the Bank involving this Agreement, the Loan Documents and/or the Premises (the "Indemnification"). None of the foregoing is intended to make any other person or entity a third party beneficiary of the foregoing indemnity.

b. To secure the Indemnification, Buyer will post a Letter of Credit in the face amount of \$100,000.00 showing Seller as beneficiary of the Letter of Credit. Said Letter of Credit will be issued from a reputable financial institution in a form and substance acceptable to Seller in its sole discretion. Said Letter of Credit must be valid and kept in force until the earlier of (i) the sale of the Premises by the Sheriff of Delaware County and said appeal and/or objection time period to sheriff's sale has expired for more than sixty (60) days; or (ii) five (5) years and one (1) week from the time a final, non-appealable final judgment for foreclosure has been entered of

record and no revival of judgment has been entered of record as it relates to the Premises; or

(iii) the date a deed in lieu of foreclosure is recorded by which the Premises are conveyed to

Buyer and/or its designee.

c. The provision of this section shall survive the termination of this Agreement, the termination of Loan Documents and/or the Closing and shall be in full force and effect unless Buyer elects to terminate this Agreement at the end of the Due Diligence Period as hereinbefore provided in paragraph 3(a).

5. Survival of Representations and Warranties. All representations and warranties of the parties shall survive the purchase of the Premises by Buyer and the Closing Date.

6. Closing. Closing, unless Buyer terminates this Agreement as permitted under paragraph 3 hereof, shall take place within thirty (30) days after expiration of the Due Diligence Period (the "Closing Date"). At Closing, the parties Bank shall deliver the following:

a. Bank shall deliver to Buyer an Assignment of Loan Documents Agreement transferring all of Bank's right, title and interest in and to the Loan Documents as listed in Exhibit B and any judgments entered thereunder in favor of the Bank, if any, to Buyer, subject to the terms and conditions of this Agreement.

b. Buyer shall deliver to Bank a Letter of Credit in the form and substance set forth in Section 4b of this Agreement.

c. A Certification of Representations and Warranties executed by the Bank and Buyer respectively confirming the representations and warranties made hereunder remain true and correct as of the Closing Date. The Bank shall deliver originals of the Loan Documents in Lender's possession to Buyer and Buyer may retain copies of any of the other documents which it reviewed during the Due Diligence Period.

d. Buyer shall deliver to Bank in cash or wire transfer or cashier's check the sum of \$80,000.00 representing the consideration for the assignment.

7. Entire Agreement. This Agreement constitutes the entire agreement between the parties and may not be amended or modified unless in writing signed by the parties hereto.

8. Binding Effect. This Agreement is intended to be binding upon and inure to the benefit of the parties hereto, their successors and assigns.

9. Assignment. Neither party has the right to assign this Agreement without the written consent of the other. All representations and warranties of Buyer and Bank made herein shall survive the sale, transfer and assignment of the rights and interests of this Agreement and/or the sale of the Loan Documents and the Closing.

10. Severability. If any term, covenant, condition or provision of this Agreement or the application thereof to any circumstance shall be invalid or unenforceable to any extent, the remaining terms, covenants, conditions and provisions of this Agreement shall not be affected thereby and each remaining term, covenant, condition and provision of this Agreement shall be valid and shall be enforceable to the fullest extent permitted by law. If any provision of this Agreement is so broad as to be unenforceable, such provision shall be interpreted to be only as broad as is enforceable.

11. Governing Law. This Agreement is intended to be governed by and construed under the laws of the State of Delaware without regard to principles of conflicts of law.

12. Counterparts. This Agreement may be executed in multiple copies by counterpart signatures which, when taken together, shall be deemed original agreement.

13. Notices. All notices, requests, demands, elections and other communications which either party to this Agreement may desire or be required to give hereunder shall be in writing and shall be deemed to have been duly given if delivered personally, by a reputable courier service which requires a signature upon delivery, by mailing the same by registered or certified first class mail, postage prepaid, return receipt requested, or by telecopying with receipt confirmation (followed by a first class mailing of the same) to the party to whom the same is so given or made. Such notice, request, demand, waiver, election or other communication will be deemed to

have been given as of the date so delivered or electronically transmitted or three (3) days after mailing thereof.

---

If to Bank, to:

Wilmington Trust Company  
Commercial Loan Department, 5th Floor  
11 North Market Street  
Rodney Square North  
Wilmington, Delaware 19890  
Attention: Mr. Anthony D'Imperio

With a copy to:

Diane E. Vuocolo, Esquire  
Duane, Morris & Heckscher LLP  
One Liberty Place, Suite 4200  
Philadelphia, PA 19103-7396

If to Buyer, to:

Trainer Industries, LLC  
105 West 2nd Street  
Essington, PA 19029

With a copy to:

Steven G. Brown, Esquire  
Petrikin, Wellman, Damico, Brown & Petrosa  
109 Chelsey Drive  
Media, PA 19063

or such other address as such party shall have specified by notice to the other party hereto.

**14. Recording.** This Agreement shall not be recorded in any office for the recording of deeds or in any other office or place of public record except with the prior written consent of the

Bank. If Buyer shall record this Agreement or cause or permit the same to be recorded other than as expressly permitted above, Bank shall have the right to treat such act as a breach of this Agreement and/or terminate this Agreement and, in addition to Bank's other legal rights and remedies hereunder, Bank shall have the right forthwith to institute appropriate legal proceedings to have the same removed from record at Buyer's expense.

15. Brokers. Other than the efforts of Lieberman Early, and Company, both the Bank and the Buyer agree that no broker or finder has brought the parties together in connection with the sale and purchase contemplated hereby and each party represents to the other that such party has not made any agreement or taken any action which may cause anyone to become entitled to a brokerage, finder's or other commission, fee or compensation as a result of the transaction(s) contemplated by this Agreement, and each party will indemnify, hold harmless and defend the other from any and all claims, actual or threatened, for compensation by any such third person by reason of such party's breach of its representation or warranty contained herein. With reference to efforts of Lieberman Early, and Company, Bank acknowledges and agrees that Bank will be solely responsible for any fees and/or commission due to Lieberman Early, and Company. It is expressly agreed that the foregoing representations and warranties and the indemnification obligations under this paragraph shall survive Closing.

**[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]**

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of  
the day and year first above written.

BANK:  
WILMINGTON TRUST COMPANY

By: \_\_\_\_\_

BUYER:  
TRAINER INDUSTRIES, LLC

By: Nick Garavelas  
Nick Garavelas

By: Charles C. Campbell  
Charles C. Campbell

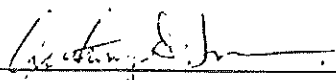
Witness [Signature]

Witness [Signature]

1

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of  
the day and year first above written.

BANK:  
WILMINGTON TRUST COMPANY

By: 

BUYER:  
TRAINER INDUSTRIES, LLC

\_\_\_\_\_  
Witness

By: \_\_\_\_\_  
Nick Garavelas

\_\_\_\_\_  
Witness

By: \_\_\_\_\_  
Charles C. Campbell

PREMISES "A"

ALL THAT CERTAIN tract or piece of land, Situate in the Borough of Trainer, County of Delaware, State of Pennsylvania and partly described according to a Plan of Property of Stauffer Chemical Co., said Plan made by G. D. Houtman and Son, Civil Engineers and Land Surveyors said Plan not signed dated November 15, 1982 as follows:-

BEGINNING at a point formed by the intersection of the Southeasterly side of Third Street (60 feet wide) and the Southwesterly side of Johnson Street (60 feet wide); thence extending from said point of beginning South 34 degrees 11 minutes 20 seconds East along the said side of Johnson Street 96.75 feet to a point on the Southeasterly side of Mary Street (20 feet wide); thence extending North 55 degrees 48 minutes 34 seconds East along the said side of Mary Street 360.00 feet to a point on the Southwesterly side of Price Street (60 feet wide); thence extending South 34 degrees 11 minutes 26 seconds East along the said side of Price Street 615.25 feet to a point on the Northwesterly side of Front Street (60 feet wide); thence extending South 55 degrees 48 minutes 34 seconds West along the said side of Front Street 679.50 feet more or less to a point in the bed of Stony Creek; thence extending in a general Northerly direction through the bed of Stony Creek 825.00 feet more or less to a point on the Southeasterly side of Third Street, aforesaid; thence extending North 55 degrees 48 minutes 34 seconds East along the Southeasterly side of Third Street 50.00 feet more or less to the first mentioned point of intersection and place of beginning.

CONTAINING in area 8.16 Acres more or less.

PREMISES "B"

ALL THAT CERTAIN tract or piece of land Situate in the Borough of Trainer, County of Delaware, State of Pennsylvania and partly described according to a Plan of Property of Stauffer Chemical Co., said Plan made by G. D. Houtman and Son, Civil Engineers and Land Surveyors said Plan not signed dated November 15, 1982 as follows, to wit:-

BEGINNING at a point formed by the intersection of the Northeasterly side of Price Street (60 feet wide) and the Northwesterly side of Front Street (60 feet wide); thence extending from said point of beginning North 34 degrees 11 minutes 26 seconds West along the said side of Price Street 326.00 feet to a point on the Southeasterly side of Second Street (60 feet wide); thence extending North 55 degrees 48 minutes 34 seconds East along the said side of Second Street 300.00 feet to a point on the Southwesterly side of Wilcox Street (60 feet wide); thence extending South 34 degrees 11 minutes 26 seconds East along the said side of Wilcox Street 326.00 feet to a point on the Northwesterly side of Front Street aforesaid; thence extending South 53 degrees 48 minutes 34 seconds West along the said side of Front Street 300.00 feet to the first mentioned point of intersection and place of beginning.

EXCEPTING THEREFROM so much of the above described premises taken for the relocation of Price Street.

~~CONTAINING an area of 2.2453 Acres.~~

BEING Folio Nos. 46-00-00444-00 & 46-00-00445-00.

BEING the same premises which First Union Commercial Corporation by Deed dated February 11, 1983 and recorded in Delaware County, in Volume 61 page 632 conveyed unto Metro Container, Corp. a DE Corp., in fee.

Page 2 of 2 pages  
Exhibit "A"

EXHIBIT "B" TO PURCHASE,  
ASSIGNMENT AND ASSUMPTION AGREEMENT

LIST OF DOCUMENTS TO BE ASSIGNED BY  
~~WILMINGTON TRUST COMPANY TO TRAINER INDUSTRIES, LLC~~

1. Copy of Term Note in the original principal sum of \$400,000.00 dated December 21, 1983 by Metro Container Corp. as Maker in favor of Wilmington Trust Company (Original Not Available);
2. That certain Mortgage dated December 21, 1983 in the original principal amount of \$700,000.00 given by Metro Container Corp. in favor of Wilmington Trust Company recorded on or about December 29, 1983 in the Recorder of Deeds Office for the County of Delaware, Commonwealth of Pennsylvania in Volume 128 at page 2159 *et. seq.*
3. That certain Loan Agreement dated January 16, 1986 by and between Metro-Enterprise Container Corp. as Debtor and Wilmington Trust Company as lender;
4. That certain Commercial Note in the original principal sum of \$350,000.00 dated January 16, 1986 by Metro-Enterprise Container Corp. as Maker in favor of Wilmington Trust Company;
5. That certain Line of Credit Note in the original principal sum of \$150,000.00 dated January 16, 1986 by Metro-Enterprise Container Corp. as Maker in favor of Wilmington Trust Company;
6. That certain Mortgage dated January 16, 1986 in the original principal amount of \$500,000.00 given by Metro Container Corp. in favor of Wilmington Trust Company recorded on or about January 22, 1986 in the Recorder of Deeds Office for the County of Delaware, Commonwealth of Pennsylvania in Volume 304 at Page 1163 *et. seq.*;
7. That certain Guarantee made by Metro Container Corp. dated January 16, 1986 in favor of Wilmington Trust Company;
8. That certain Loan Agreement dated October 6, 1986 by and between Metro Container Corp. as Debtor and Wilmington Trust Company as lender;
9. That certain Commercial Note in the original principal sum of \$400,000.00 dated October 6, 1986 by Metro Container Corp. as Maker in favor of Wilmington Trust Company;

10. That certain Loan Agreement dated October 6, 1986 by and between Metro-Enterprise Container Corp. as Debtor and Wilmington Trust Company as lender;
11. ~~That certain Commercial Note in the original principal sum of \$150,000.00 by Metro-~~  
Enterprise as Maker in favor of Wilmington Trust Company; and
12. That certain Guarantee made by Metro Container Corp. dated October 6, 1986 in favor of Wilmington Trust Company; and
13. That certain Mortgage dated October 6, 1986 in the original principal sum of \$550,000.00 given by Metro Container Corp. in favor of Wilmington Trust Company recorded on or about October 20, 1986 in the Recorder of Deeds Office for the County of Delaware, Commonwealth of Pennsylvania in Volume 391 at Page 1391 *et. seq.*

PETRIKIN, WELLMAN, DAMICO, BROWN & PETROSA  
A PROFESSIONAL CORPORATION  
ATTORNEYS AND COUNSELORS AT LAW

THE WILLIAM PENN BUILDING  
109 CHESLEY DRIVE  
MEDIA, PA 19063

JOHN W. WELLMAN  
JOSEPH A. DAMICO, JR.  
STEVEN G. BROWN  
DONALD T. PETROSA  
STEVEN A. COHEN  
DENIS M. DUNN\*  
MARK D. DAMICO  
HOWARD M. BROWN\*  
H. FINTAN McHUGH\*

MALCOLM B. PETRIKIN  
(1934-1985)

AREA CODE 610  
565-2670  
FAX 565-0178

Direct Dial: 610-892-1863  
e-mail: hmb@petrikin.com

March 31, 2000

\*ALSO NEW JERSEY BAR

Nick Garavelas, President  
Charles Campbell, Vice President  
Trainer Industries  
231 Wanamaker Avenue  
P.O. Box 86  
Essington, PA 19029

Re: *Metro Container Property - Assignment of Mortgage*  
*Our File: 98081 R.1*

Gentlemen:

Enclosed please find time-stamped copies of each Mortgage Assignment from Wilmington Trust to Trainer Industries, LLC with regard to the above-referenced property, originals of which were filed with the Delaware County Recorder of Deeds on March 30, 2000. The documents will be recorded, officially, in the Deed Book today. Within the next couple weeks, the Recorder of Deeds will send us the Mortgage Assignments referencing the Deed Book and Page.

If you have any questions, please give me a call.

Very truly yours,

PETRIKIN, WELLMAN, DAMICO,  
BROWN & PETROSA

BY: 

HOWARD M. BROWN, ESQUIRE

HMB/rjh  
Enclosure

cc: Steven G. Brown, Esquire

ASSIGNMENT OF MORTGAGE

THIS ASSIGNMENT OF MORTGAGE (this "Assignment") dated as of September 24, 1999 by and between WILMINGTON TRUST COMPANY, 1100 North Market Street, Rodney Square North, Wilmington, Delaware (the "Assignor") and TRAINER INDUSTRIES, LLC, 105 West 2<sup>nd</sup> Street, Essington, Pennsylvania (the "Assignee").

NOW, THEREFORE, in consideration of the sum of Eighty Thousand Dollars (\$80,000.00) in hand paid in conjunction with this assignment and other assignments of mortgages of even date herewith and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the parties hereto agree as

follows:

1. Assignor hereby sells, transfers, conveys, sets over and assigns unto Assignee, without recourse to Assignor and, except as expressly provided in that certain Purchase, Assignment and Assumption Agreement dated May 24, 1999 by and between Assignor and Assignee (the "Purchase Agreement"), without representation or warranty, express or implied, by Assignor, all of Assignor's right, title and interest "as is-where is" and "with all faults" in, to and under that certain Mortgage dated January 16, 1986 and recorded on or about January 22, 1986 in the Office for the Recorder of Deeds in and for Delaware County in Volume 304 Page 1163 et seq. in the original principal amount of \$500,000.00 given by Metro Container Corp. in favor of Wilmington Trust Company (the "Mortgage") secured by the real property more particularly described on Exhibit "A" attached hereto and incorporated herein by reference.

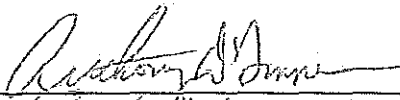
2. Assignee hereby accepts the foregoing assignment pursuant to the terms set forth in the Purchase Agreement.

3. This Assignment shall be governed by the laws of the State of Delaware.

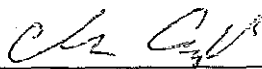
4. This Assignment may be executed in any number of counterparts when all such counterparts have been so executed shall constitute one original Assignment.

IN WITNESS WHEREOF, this Assignment has been executed the day and year first above written.

ASSIGNOR:  
WILMINGTON TRUST COMPANY

By:   
Name: ANTHONY D. IMPERIO  
Title: Vice President  
Date: 3/21/00

ASSIGNEE:  
TRAINER INDUSTRIES, LLC

By:   
Name: Charles Campbell  
Title: Member  
Date: 3/24/00

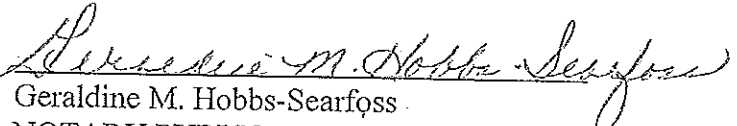
STATE OF DELAWARE

COUNTY OF NEW CASTLE

SS.

On this 21st day of March, 2000, before me, the undersigned officer, personally appeared Anthony D'Imperio, who acknowledged himself to be the Vice President of WILMINGTON TRUST COMPANY, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the association by himself as such officer.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

  
Geraldine M. Hobbs-Searfoss  
NOTARY PUBLIC

My Commission Expires:

GERALDINE M. HOBBS-SEARFOSS  
NOTARY PUBLIC OF DELAWARE  
MY COMMISSION EXPIRES JULY 2, 2000

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF

Delaware

SS.

On this the 24th day of March, 2000, before me, the undersigned officer, personally appear Charles Campbell, who acknowledged himself to be a Member of **TRAINER INDUSTRIES, LLC**, a Pennsylvania limited liability company, and that he as such member, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the association by himself as such member.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Sally A. Gentile  
Notary Public

My Commission Expires:

Notarial Seal  
Sally A. Gentile, Notary Public  
Wether Providence Twp. Delaware County  
My Commission Expires Sept. 23, 2000  
Member, Pennsylvania Association of Notaries

EXHIBIT "A"

PREMISES "A"

ALL THAT CERTAIN tract or piece of land, Situate in the Borough of Trainer, County of Delaware, State of Pennsylvania and partly described according to a Plan of Property of Stauffer Chemical Co., said Plan made by G. D. Houtman and Son, Civil Engineers and Land Surveyors said Plan not signed dated November 15, 1962 as follows:-

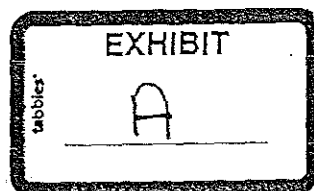
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EXCEPTING THEREFROM so much of the above described premises taken for the relocation of Price Street.

CONTAINING an area of 2.2452 Acres.

BEING Folio Nos. 46-00-00444-00 & 46-00-00445-00.

BEING the same premises which First Union Commercial Corporation by Deed dated February 11, 1983 and recorded in Delaware County, in Volume 61 page 632 conveyed unto Metro Container, Corp. a DE Corp., in fee.

COMMONWEALTH LAND  
TITLE INSURANCE COMPANY

Medio

98081-1

SHERIFF'S DEED

## KNOW ALL MEN BY THESE PRESENTS

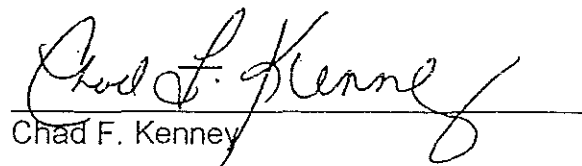
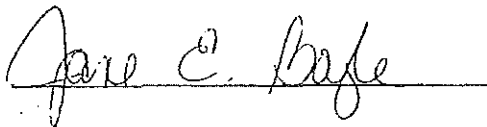
THAT, I, CHAD F. KENNEY, Sheriff of the County of Delaware in the Commonwealth of Pennsylvania, for and in consideration of the sum of One Dollar (\$1.00), to me in hand, do hereby grant and convey to **TRAINER INDUSTRIES, LLC**.

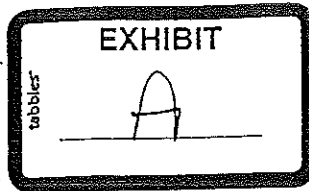
ALL THOSE CERTAIN lots or pieces of ground with the buildings and improvements thereon erected, SITUATE in the Borough of Trainer, County of Delaware and Commonwealth of Pennsylvania, as more particularly described on Exhibit "A" attached hereto and incorporated herein by reference.

The same having been sold by me to the said grantee, on the 15<sup>th</sup> day of December Anno Domini Two Thousand (2000) after due advertisement, according to the law, under and by virtue of a writ of Execution (Mortgage Foreclosure) issued on the 15<sup>th</sup> day of March Anno Domini Two Thousand (2000) out of the Court of Common Pleas of Delaware County as of Term and Number 99-18679 at the suit of Trainer Industries, LLC vs. Metro Container Corporation.

IN WITNESS WHEREOF, I have hereunto affixed my signature, this 8th day of February, Anno Domini Two Thousand and One (2001):

SEALED AND DELIVERED  
IN THE PRESENCE OF:

  
Chad F. Kenney



PREMISES "A"

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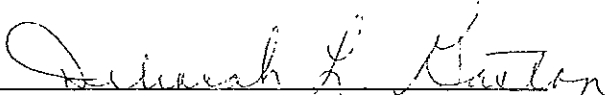
Title to the said premises is vested in Metro Container Corp., a Delaware corporation by Deed from First Union Commercial Corporation dated February 11, 1983 and recorded in Delaware County in Volume 61 page 632.

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF DELAWARE

On this, the 12TH day of FEBRUARY, 2001, before me the undersigned Officer, personally appeared **CHAD F. KENNEY**, Sheriff of the County of Delaware, known to me (or satisfactory proven) to be the person described in the foregoing instrument, and acknowledged that he executed the same in the capacity therein stated and for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

  
~~Notary Public~~ **DEBORAH L. GASTON, DIRECTOR**  
**OFFICE OF JUDICIAL SUPPORT**  
My Commission Expires:

Writ No. \_\_\_\_\_

DEED = POLL 05/20/00

CHAD F. KENNEY, Sheriff  
DELAWARE COUNTY COURT HOUSE

TO

TRAINER INDUSTRIES, LLC

Trainer Industries, LLC

vs.

Metro Container Corporation

No. 99-18679

Premises: 2<sup>nd</sup> and Pine Streets  
Trainer, PA 19016

*Petitioner, etc., Do*



2001 FEB 14 AM 10:54

008943

The address of the within named Grantee is:

*TH*  
P.O. Box 430  
Marcus Hook, PA 19061

## EMSL Analytical

<http://www.emsl.com>

3 Cooper St.  
Westmont, NJ 08108  
Phone: (856) 858-4800  
Fax: 8568584571

Attn: Frank Weigand  
Key Environmental & Safety  
P.O. Box 295  
Quarryville, PA 17566

3/6/2008

Phone (717) 284-6372  
Fax: (717) 284-5244

The following report covers the analysis performed on samples submitted to EMSL Analytical on 2/28/2008. The results are tabulated on the attached data pages for the following client designated project:

Project ID: Trainer Industries

The reference number for these samples is EMSL Order #010800903. Please use this reference when calling about these samples.

If you have any questions, please do not hesitate to contact me at (856) 858-4800.

Reviewed and Approved By:

Laboratory Director or other  
approved signatory  
NJ-NELAP Accredited:04653



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.



Key Environmental & Safety, Inc.

3 Cooper Rd., Westmont, NJ 08126

Phone: (609) 685-4300 Fax: (609) 685-4301 Email: sales@keyenv.com

Attn: Frank Weigand  
Key Environmental & Safety  
P.O. Box 295  
Quarryville, PA 17566

Fax: (717) 284-5244

Phone: (717) 284-6372

Customer ID: KEYE62

Customer PO: A.C. 410869

Received: 02/28/08 10:40 AM

EMSL Order: 010600903

EMSL Proj: Trainer Industries

Report Date: 3/6/2008

*Client Sample Description*

433

200 Price St Trainer PA

*Collected:* 2/22/2008

11:30:00 AM

*Lab ID:* 0001

<i>Method</i>	<i>Parameter</i>	<i>Concentration</i>	<i>Units</i>	<i>RL</i>	<i>Analysis Date</i>	<i>Analyst</i>
TCLP 1311/6010B	Arsenic	<0.080	mg/L	0.080	3/5/2008	lacevedo
TCLP 1311/6010B	Barium	<1.0	mg/L	1.0	3/5/2008	lacevedo
TCLP 1311/6010B	Cadmium	<0.040	mg/L	0.040	3/5/2008	lacevedo
TCLP 1311/6010B	Chromium	<0.10	mg/L	0.10	3/5/2008	lacevedo
TCLP 1311/6010B	Lead	<0.10	mg/L	0.10	3/5/2008	lacevedo
TCLP 1311/6010B	Selenium	<0.20	mg/L	0.20	3/5/2008	lacevedo
TCLP 1311/6010B	Silver	<0.10	mg/L	0.10	3/5/2008	lacevedo
TCLP 1311/7470A	Mercury	<0.0020	mg/L	0.0020	3/5/2008	dhemsley

Key Environmental  
& Safety, Inc.



Monday, July 28, 2008

Nick Garavelas, President  
Service Painting, Inc.  
P.O. Box 433  
Marcus Hook, PA 19061

Re: TCLP Characterization, Spent Abrasive Blasting Materials

On July 14, 2008, nine (9) composite samples were taken from the spent abrasive blasting agent in the yard of Service Painting.

The sampling strategy broke the total area of the material (100 by 100 feet) into ten (10) grids. Each grid was ten by ten feet. A sample was taken within each grid. Each sub sample was randomly selected from each grid and encompassed a one foot by one foot square. These sub samples (10) were combined into one composite sample. That composite sample was labeled as sample number 33886.

Sample number 33886 was submitted for Toxic Characteristic Leaching Procedure (TCLP) for the eight (8) RCRA metals.

The results of the analysis are summarized in the table below. The laboratory analysis is attached.

Analyte	Results (mg/L)	Report Limit	Regulatory Limit (mg/L)
Silver	< 0.05	0.05	5.0
Arsenic	< 0.05	0.05	5.0
Barium	0.14	0.05	100
Cadmium	0.096	0.05	1.0
Chromium	< 0.05	0.05	5.0
Lead	0.36	0.05	5.0
Selenium	< 0.05	0.05	1.0
Mercury	< 0.001	0.001	0.20

The results indicate trace concentrations of Barium, Cadmium, and Lead. These concentrations are below the Regulatory limit for the contaminants.

If there are any questions please contact me.

Frank M. Weigand

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

## METAL TCLP ANALYSIS SUMMARY

CLIENT: Key Environmental & Safety, Inc.  
P.O. Box 295  
Quarryville, PA 17566

DATE OF SAMPLING: 14 Jul 2008  
DATE OF RECEIPT: 16 Jul 2008  
DATE OF ANALYSIS: 21 Jul 2008  
DATE OF REPORT: 22 Jul 2008

CLIENT NUMBER: 39-4880 D  
EHS PROJECT #: 2008-07-0915  
PROJECT: Service Yard

EHS SAMPLE #: 2008-07-0915-01  
CLIENT SAMPLE #: 33886  
LAB. GROSS DESCRIPTION: Sand

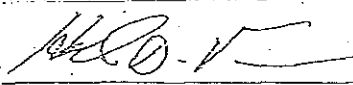
SAMPLE DATE: 14 Jul 2008  
TCLP INITIAL pH: 9.82  
SAMPLE WEIGHT (g): 100

ANALYTE	RESULT (mg/L)	REPORT LIMIT (mg/L)	MDL (mg/L)	METHOD	REGULATORY LIMIT (mg/L)
SILVER (Ag)	<0.050	0.050	0.0005	EPA SW846 1311/3010B/6010B	5.0
ARSENIC (As)	<0.050	0.050	0.0044	EPA SW846 1311/3010B/6010B	5.0
BARIUM (Ba)	0.14	0.050	0.0002	EPA SW846 1311/3010B/6010B	100
CADMIUM (Cd)	0.096	0.050	0.0005	EPA SW846 1311/3010B/6010B	1.0
CHROMIUM (Cr)	<0.050	0.050	0.0011	EPA SW846 1311/3010B/6010B	5.0
LEAD (Pb)	0.36	0.050	0.0017	EPA SW846 1311/3010B/6010B	5.0
SELENIUM (Se)	<0.050	0.050	0.0052	EPA SW846 1311/3010B/6010B	1.0
MERCURY (Hg)	<0.001	0.001	0.0001	EPA SW846 1311/7470A	0.20

QUALITY CONTROL ANALYTE	SPIKE RECOVERY	DUPLICATE RELATIVE PERCENT DIFFERENCE (RPD)
SILVER (Ag)	89.0%	0.00%
ARSENIC (As)	100%	0.00%
BARIUM (Ba)	86.5%	0.00%
CADMIUM (Cd)	90.7%	4.08%
CHROMIUM (Cr)	87.4%	0.00%
LEAD (Pb)	85.5%	0.00%
SELENIUM (Se)	102%	0.00%
MERCURY (Hg)	100%	0.00%

ANALYST: David Xu

Reviewed By Authorized Signatory:

  
Michael A. Mueller, MPH, Laboratory Director  
Howard Varner, General Manager  
Irma Faszewski, Quality Assurance Coordinator  
David Xu, MS, Senior Chemist

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 39-4880 D  
EHS PROJECT #: 2008-07-0915  
PROJECT: Service Yard

Method EPA SW846 1311 recommends 100g for analysis.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2272 NY ELAP #11714

LEGEND	g = gram	ug = microgram	ppm = parts per million	MDL = method detection limit
	ml = milliliter	Pb = lead	mg/L = milligrams per liter	

tcp8mt2.1dot/ICPVISTA/07JUL2006/REV4/MR

-- PAGE 02 of 02 -- END OF REPORT --

1 TCLP RCRA 8

~~CHAIN OF CUSTODY FORM~~

Fax #: 717-284-5244

Date: 7/14/02

Contact Name: \_\_\_\_\_ Weidand

Sampler Name: Wingma

Project #: 350100 YASAP

Fax #: 717-284-5244

P.O. 法

[illegible]

Fax: (356) 858-4571 (356) 854-2362

<http://www.emsl.com>

Indicate State where samples collected

PA

Please print all information legibly.

<b>REPORT RESULTS TO:</b>						<b>SEND INVOICE TO:</b>								<b>TURNAROUND TIME</b>									
Name: Andrew Papp						Name: Andrew Papp								PO: CC# on E/P									
Company: Millennium Health And Safety						Company: Millennium Health And Safety								Standard Turnaround Time is 10 working days <input checked="" type="checkbox"/>									
Address: 70 Eastwick Dr.						Address: 70 Eastwick Dr.								The following turnaround times require lab approval:									
City: Gibbsboro						City: Gibbsboro								<input type="checkbox"/> 4-5 days <input type="checkbox"/> 72 Hrs <input type="checkbox"/> 48 Hrs									
State: NJ      Zip: 08026						State: NJ      Zip: 08026								<input type="checkbox"/> 24 Hrs    Approved by:									
Country: USA						Country: USA																	
Tel: 856-466-4031      Fax:						Tel: 856-466-4031      Fax:																	
Email: millenniumhs@comcast.net						Email: millenniumhs@comcast.net																	
Sampled by: (Signature)						Number of Samples in Shipment								Date of Sample Shipment									
Failure to complete items marked with * will hinder processing of samples .						MATRIX					Method Preserved				Sampling		List Test Needed						
Sample Number	Station Location /Sample ID	COMP	GRAB	W A T E R	S O I L	A I R	S L U D G E	O T H E R	H C L	H N O 3	H 2 S O 4	I C E	O T H E R	D A T E *	T I M E *	TEL P-HA	TEL P-MH						
1. SAND-1								X						7/9	1400	X							
2. VOA-1								X						7/9	1400		X						
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
Released By Signature		Date & Time Released		Delivery Method		Received By Signature				Agency		Date and Time Received		Condition Noted									
(Signature)		7/10/09 1300				(Signature)				EML		7/10/09 349P											
Comments: Residual Parameters on attached																							
Please Indicate reporting requirements <input checked="" type="checkbox"/> 1. Results only <input type="checkbox"/> 2. Results and QC <input type="checkbox"/> 3. Reduced Deliverables <input type="checkbox"/> 4. Disk Deliverable																							

**TABLE A PARAMETERS**

	Parameter Name	Type	Category	Limits	Units	85% of Limit
<input type="checkbox"/>	Ignitibility	As Received		>140	F	
<input type="checkbox"/>	Oil & Grease	As Received			mg/kg	
<input type="checkbox"/>	Paint Filter Test	As Received		No free liquids		
<input type="checkbox"/>	PCB's	As Received		50		
<input type="checkbox"/>	pH	As Received		2 - 12.5	S.U.	
<input type="checkbox"/>	Reactive Cyanide	As Received		100		
<input type="checkbox"/>	Reactive Sulfide	As Received		500		
<input type="checkbox"/>	Total Solids	As Received				
<input type="checkbox"/>	Total Volatile Solids	As Received				
<input type="checkbox"/>	Ammonia-Nitrogen	ASTM		111111	mg/l	
<input type="checkbox"/>	Chemical Oxygen Demand	ASTM				
<input type="checkbox"/>	Oil & Grease	ASTM		88550	mg/l	
<input type="checkbox"/>	Total Solids	ASTM				
<input type="checkbox"/>	pH	TCLP				
<input type="checkbox"/>	Arsenic	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Barium	TCLP	Metals	100	mg/l	85
<input type="checkbox"/>	Cadmium	TCLP	Metals	1	mg/l	0.85
<input type="checkbox"/>	Chromium	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Copper	TCLP	Metals	167	mg/l	142
<input type="checkbox"/>	Lead	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Mercury	TCLP	Metals	0.2	mg/l	0.17
<input type="checkbox"/>	Nickel	TCLP	Metals	242	mg/l	206
<input type="checkbox"/>	Selenium	TCLP	Metals	1	mg/l	0.85
<input type="checkbox"/>	Silver	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Zinc	TCLP	Metals	1875	mg/l	1594
<input type="checkbox"/>	2,4-D	TCLP	Herb	10	mg/l	8.5
<input type="checkbox"/>	2,4,5-TP	TCLP	Herb	1	mg/l	0.85
<input type="checkbox"/>	Chlordane	TCLP	Pest	0.03	mg/l	0.0255
<input type="checkbox"/>	Endrin	TCLP	Pest	0.02	mg/l	0.017
<input type="checkbox"/>	Heptachlor	TCLP	Pest	0.008	mg/l	0.0068
<input type="checkbox"/>	Heptachlor Epoxide	TCLP	Pest	0.008	mg/l	0.0068
<input type="checkbox"/>	Lindane	TCLP	Pest	0.4	mg/l	0.34
<input type="checkbox"/>	Methoxychlor	TCLP	Pest	10mg/l	8.5	
<input type="checkbox"/>	Toxaphene	TCLP	Pest	0.5	mg/l	0.425
<input type="checkbox"/>	2,4,5-trichlorophenol	TCLP	Acids	400	mg/l	340
<input type="checkbox"/>	2,4,6-trichlorophenol	TCLP	Acids	2	mg/l	1.7
<input type="checkbox"/>	m-cresol	TCLP	Acids	200	mg/l	170
<input type="checkbox"/>	o-cresol	TCLP	Acids	200	mg/l	170
<input type="checkbox"/>	p-cresol	TCLP	Acids	200	mg/l	170
<input type="checkbox"/>	Pentachlorophenol	TCLP	Acids	100	mg/l	85
<input type="checkbox"/>	2,4-dinitrotoluene	TCLP	Base/Neutral	0.13	mg/l	0.1105
<input type="checkbox"/>	Hexachlorobenzene	TCLP	Base/Neutral	0.13	mg/l	0.1105
<input type="checkbox"/>	Hexachlorobutadiene	TCLP	Base/Neutral	0.5	mg/l	0.425
<input type="checkbox"/>	Hexachloroethane	TCLP	Base/Neutral	3	mg/l	2.55

# TABLE A PARAMETERS

	Parameter Name	Type	Category	Limits	Units	85% of Limit
<input type="checkbox"/>	Nitrobenzene	TCLP	Base/Neutral	2	mg/l	1.7
<input type="checkbox"/>	Pyridine	TCLP	Base/Neutral	5	mg/l	4.25
<input type="checkbox"/>	1,1-dichloroethylene	TCLP	Volatiles	0.7	mg/l	0.595
<input type="checkbox"/>	1,2-dichloroethane	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	1,4-dichlorobenzene	TCLP	Volatiles	7.5	mg/l	6.375
<input type="checkbox"/>	Benzene	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	Carbon Tetrachloride	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	Chlorobenzene	TCLP	Volatiles	100	mg/l	85
<input type="checkbox"/>	Chloroform	TCLP	Volatiles	8	mg/l	6.8
<input type="checkbox"/>	Methyl ethyl ketone	TCLP	Volatiles	200	mg/l	170
<input type="checkbox"/>	Tetrachloroethylene	TCLP	Volatiles	0.7	mg/l	0.595
<input type="checkbox"/>	Trichloroethylene	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	Vinyl Chloride	TCLP	Volatiles	0.2	mg/l	0.17

### Sampling Outline

On July 10, 2009 a sample of the spent sandblasting abrasive was taken at the Service Painting yard as out lined below.

The spent sandblasting abrasive generated by sandblasting operations at the Service Painting facility in Trainer, PA. Various objects are brought to the facility for painting or repainting and are sandblasted if required.

The sample of sand called **Service Painting Sand** was taken from the sand pile at the service painting yard. The face of the pile was divided into nine (9) equal areas and a random sample taken from within each area. These nine (9) subsamples were combined into one sample. A discreet sample was also taken for the volatiles portion of the analysis.

### Sampling Schematic

X - Sample Location



### Sampling Outline

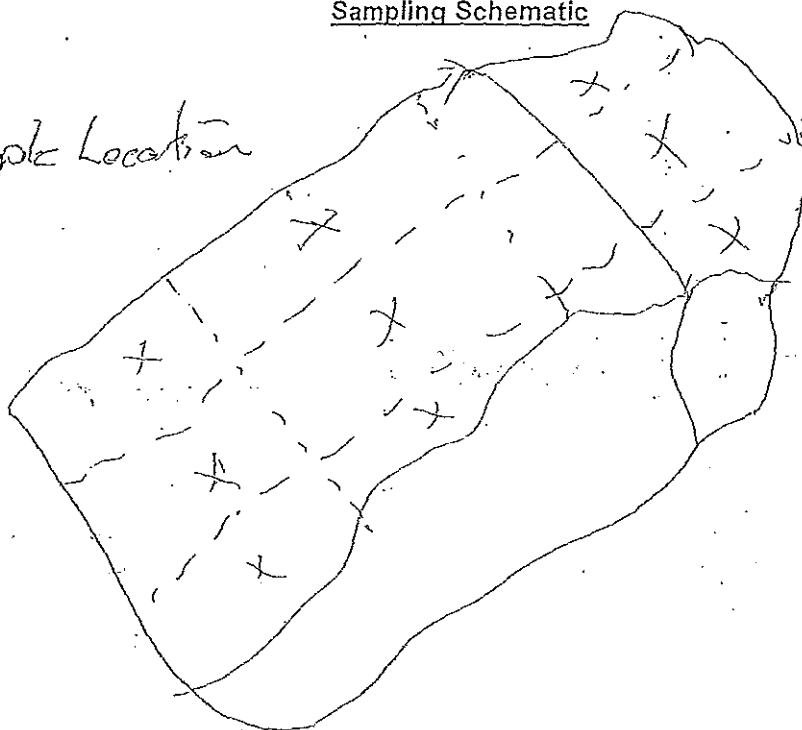
On July 10, 2009 a sample of the spent sandblasting abrasive was taken at the Service Painting yard as outlined below.

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### Sampling Schematic

X - Sample Location



Samples taken from nine areas in covered storage building.

2002 - Service Painting moved to the facility at:

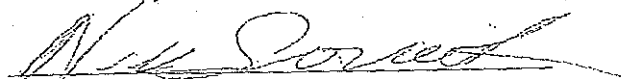
200 Price Street

Trainer, PA 19061

2008 - Blasting started with delivery of new structural steel and new piping for refineries, chemical plants & buildings. Once

blasted and painted the structural steel is delivered to the above mentioned facilities.

NOTE: Only new steel is blasted and painted at this facility

  
Nick Garavelas

# Generator's Nonhazardous Waste Profile Sheet



Requested Disposal Facility \_\_\_\_\_ Profile Number \_\_\_\_\_  
☐ Renewal for Profile Number \_\_\_\_\_ Waste Approval Expiration Date \_\_\_\_\_

## A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: Service Painting, Inc  
 2. Site Address: 200 Price St  
 3. City/ZIP: Trainer, PA 19061  
 4. State: PA  
 5. County: Delaware  
 6. Contact Name/Title: Nick Garavito, Resident  
 7. Email Address: ServicePainting@comcast.net  
 8. Phone: 610/497-4700 9. FAX: 610/497-0723  
 10. NAICS Code: \_\_\_\_\_  
 11. Generator USEPA ID #: \_\_\_\_\_  
 12. State ID# (if applicable): \_\_\_\_\_

## B. Customer Information ☒ same as above

P. O. Number: \_\_\_\_\_

1. Customer Name: \_\_\_\_\_ 6. Phone: \_\_\_\_\_ FAX: \_\_\_\_\_  
 2. Billing Address: \_\_\_\_\_ 7. Transporter Name: \_\_\_\_\_  
 3. City, State and ZIP: \_\_\_\_\_ 8. Transporter ID # (if appl.): \_\_\_\_\_  
 4. Contact Name: \_\_\_\_\_ 9. Transporter Address: \_\_\_\_\_  
 5. Contact Email: \_\_\_\_\_ 10. City, State and ZIP: \_\_\_\_\_

## C. Waste Stream Information

### 1. DESCRIPTION

a. Common Waste Name: Sandblast Abrasive and residue  
 State Waste Code(s): 109

b. Describe Process Generating Waste or Source of Contamination:

Sandblast abrasive and residue from various sand blasting operations

c. Typical Color(s): \_\_\_\_\_  
 d. Strong Odor? ☐ Yes ☒ No Describe: \_\_\_\_\_  
 e. Physical State at 70°F: ☒ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: \_\_\_\_\_  
 f. Layers? ☒ Single layer ☐ Multi-layer ☐ NA  
 g. Water Reactive? ☐ Yes ☒ No If Yes, Describe: \_\_\_\_\_  
 h. Free Liquid Range (%): \_\_\_\_\_ to \_\_\_\_\_ ☒ NA(solid)  
 i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☒ NA(solid) ☐ Actual: \_\_\_\_\_  
 j. Liquid Flash Point: ☐ < 140°F ☐ ≥ 140°F ☒ NA(solid) ☐ Actual: \_\_\_\_\_  
 k. Flammable Solid: ☐ Yes ☒ No  
 l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☐ (See Attached)

Constituents (Total Composition Must be > 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. <u>SAND</u>			<u>99+</u>	<u>%</u>
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				

## 2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☐ One Time Event ☐ Base ☒ Repeat Event

b. Estimated Annual Quantity: 400 ☐ Tons ☒ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): \_\_\_\_\_

c. Shipping Frequency: \_\_\_\_\_ Units per ☐ Month ☐ Quarter ☐ Year ☐ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☒ No

e. USDOT Shipping Description (if applicable): \_\_\_\_\_

## 3. SAFETY REQUIREMENTS (Handling, PPE, etc.):



## Generator's Nonhazardous Waste Profile Sheet

### D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☒ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☒ No
  - ☐ Delisted Hazardous Waste ☐ Excluded Wastes Under 40 CFR 261.4
  - ☐ Treated Hazardous Waste Debris ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☐ Yes ☒ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☒ No
  - a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
  - b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☒ No
  - a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☒ No
7. Does the waste contain asbestos? ☐ Yes ☒ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☒ No

If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

### E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
  - ☒ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested:  
Service Painting Sand # Pages: 10
  - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested).  
Attachment #: \_\_\_\_\_
  - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical).  
Indicate the number of attached pages: \_\_\_\_\_
  - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
  - ☐ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Company Name: \_\_\_\_\_ Name (Print): \_\_\_\_\_

Date: \_\_\_\_\_

### FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation Approval Decision: ☐ Approved ☐ Not Approved  
☐ Non-hazardous solidification ☐ Other: \_\_\_\_\_ Waste Approval Expiration Date: \_\_\_\_\_

Management Facility Precautions, Special Handling Procedures or Limitation on approval: ☐ Shall not contain free liquid  
☐ Shipment must be scheduled into disposal facility  
☐ Approval Number must accompany each shipment  
☐ Waste Manifest must accompany load

WM Authorization Name / Title: \_\_\_\_\_ Date: \_\_\_\_\_

State Authorization (if Required): \_\_\_\_\_ Date: \_\_\_\_\_

## EMSL Analytical, Inc.

<http://www.emsl.com>

3 Cooper St.  
Westmont, NJ 08108  
Phone: (856) 858-4800  
Fax: 8568584571

EMSL

SM

Attn: Andrew Papp  
Millennium Health & Safety, Inc.  
70 Eastwick Drive  
Gibbsboro, NJ 08026

Phone (856) 466-4031  
Fax: (856) 566-4131

7/24/2009

The following report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/10/2009. The results are tabulated on the attached data pages for the following client designated project:

Project ID: Service Painting Sand

The reference number for these samples is EMSL Order #010903447. Please use this reference when calling about these samples.

If you have any questions, please do not hesitate to contact me at (856) 858-4800.

Reviewed and Approved By:

Julie Smith - Laboratory Director or  
other approved signatory  
NJ-NELAP Accredited:04653



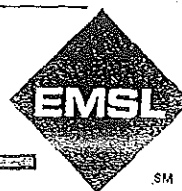
The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.



# EMSL Analytical, Inc.

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com



Attn: **Andrew Papp**  
**Millennium Health & Safety, Inc.**  
**70 Eastwick Drive**  
**Gibbsboro, NJ 08026**

Fax: (856) 566-4131

Phone: (856) 466-4031

Customer ID: MHSF78  
 Customer PO: A.C. 046756  
 Received: 07/10/09 3:49 PM  
 EMSL Order: 010903447

EMSL Proj: Service Painting Sand

Client Sample Description		Sand-1		Collected:	7/9/2009 2:00:00 PM	Lab ID:	0001
Method	Parameter	Concentration	Reporting Limit Units	Analysis Date	Analyst		
1010 Modified	Ignitability	>180	N/A °F	7/16/2009	bwright		
SM 2540G	TVS	0.26	N/A %	7/16/2009	crybicki		
SM 2540B	Total Solids	99	N/A %	7/15/2009	bwright		
TCLP 1311/6010B	Arsenic	<0.080	0.080 mg/L	7/14/2009	rferrer		
TCLP 1311/6010B	Barium	<1.0	1.0 mg/L	7/14/2009	rferrer		
TCLP 1311/6010B	Cadmium	<0.040	0.040 mg/L	7/14/2009	rferrer		
TCLP 1311/6010B	Chromium	<0.10	0.10 mg/L	7/14/2009	rferrer		
TCLP 1311/6010B	Lead	<0.10	0.10 mg/L	7/15/2009	rferrer		
TCLP 1311/6010B	Selenium	<0.20	0.20 mg/L	7/14/2009	rferrer		
TCLP 1311/6010B	Silver	<0.10	0.10 mg/L	7/14/2009	rferrer		
TCLP 1311/7470A	Mercury	<0.0020	0.0020 mg/L	7/15/2009	klrout		
TCLP 1311/8081-Pesticides	See Attached		N/A	7/20/2009	tlindsay		
3550B/8082-PCBs	See Attached		N/A	7/23/2009	ehernandez		
TCLP 1311/8151A-Herbicides	See Attached		N/A	7/21/2009	tlindsay		
TCLP 1311/8260B-Volatiles	See Attached		N/A	7/16/2009	afalasca		
TCLP 1311/8270C-Semivolatiles	See Attached		N/A	7/21/2009	wfink		
9010B/9014	Reactive Cyanide	<0.99	0.99 mg/Kg	7/14/2009	cohehir		
9030B/9034	Reactive Sulfide	21	1.9 mg/Kg	7/15/2009	bwright		
9040B	pH	5.1	N/A ph Units	7/15/2009	jhess		
9045C	pH	8.40	N/A	7/20/2009	bwright		
9071B (HEM)	Oil and Grease	<140	140 mg/Kg	7/23/2009	mmazur		
9095A	Free Liquid	NFL	N/A	7/23/2009	cohehir		

Client Sample Description		Sand-1, ASTM Leachate		Collected:	7/9/2009 2:00:00 PM	Lab ID:	0002
Method	Parameter	Concentration	Reporting Limit Units	Analysis Date	Analyst		
SM 2540B	Total Residue	53	10 mg/L	7/21/2009	crybicki		
110.4/SM 5220D	Chemical Oxygen Demand	<10	10 mg/L	7/21/2009	cohehir		
664A (HEM)	Oil and Grease	<2.1	2.1 mg/L	7/16/2009	mmazur		
SM 4500-NH3 B+C	Ammonia	<0.18	0.18 mg/L	7/23/2009	bwright		

# EMSL Analytical Inc.

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Customer Sample#:		Sand-1		
Lab Name:	EMSL ANALYTICAL	Project:	Service Painting Sand	
EMSL Sample ID:	010903447-0001	Sample Matrix:	Leachate	
Lab File ID:	T6778.D	Sampling Date:	7/9/2009	
Instrument ID:	VOA MSD-T	Analysis Date:	7/16/2009 2:52:00 PM	
Analyst:	AF	Level (low/med):	LOW	
GC Column:	RTX-502.2 X 60m (0.25 mm)	Nominal Amount:	0.005 ML	
Sample wt/vol:	0.300 ML	Method:	SW846 8260B TCLP	
Dilution Factor:	1			

CAS NO	COMPOUND	Report Limit (mg/L)	CONC. (mg/L)	Q
75-01-4	Vinyl chloride	0.017		U
75-35-4	1,1-Dichloroethene	0.017		U
78-93-3	2-Butanone	0.033		U
67-66-3	Chloroform	0.017		U
56-23-1	Carbon tetrachloride	0.017		U
71-43-2	Benzene	0.0083		U
107-06-2	1,2-Dichloroethane	0.017		U
79-01-6	Trichloroethene	0.017		U
77-18-4	Tetrachloroethene	0.017		U
108-90-7	Chlorobenzene	0.017		U

Qualifier Definitions  
 U = Undetected  
 B = Compound detected in method blank  
 E = Estimated value  
 J = Estimated concentration.  
 D = Dilution

# EMSL Analytical Inc.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Customer Sample#:		Sand-1	
Lab Name:	EMSL Analytical Inc.	Project:	Service Painting Sand
EMSL Sample ID:	010903447-0001	Sample Matrix:	Leachate
Lab File ID:	C17239.D	Sampling Date:	7/9/2009
Instrument ID:	SVOA MSD-C	Date Extracted:	7/18/2009
Analyst:	WRF	Analysis Date:	7/21/2009 15:48:00
GC Column:	RXI-5SiIMS (0.25 mm)	Sample wt/vol:	100 ML
Level (low/med):	LOW	Dilution Factor:	1
% Moisture:		Conc. Extract Volume:	1000 (ul)
PH:		Injection Volume:	1 (ul)
GPC Cleanup(Y/N):	N	Extraction Type:	3520C
Method:	SW846 8270 TCLPBNA		

CAS NO	COMPOUND	Report Limit (mg/L)	CONC. (mg/L)	Q
110-86-1	Pyridine	0.050		U
106-46-7	1,4-Dichlorobenzene	0.050		U
95-48-7	2-Methylphenol	0.050		U
1319-77-3	3&4-Methylphenol	0.050		U
67-72-1	Hexachloroethane	0.050		U
98-95-3	Nitrobenzene	0.050		U
7-68-3	Hexachlorobutadiene	0.050		U
106-2	2,4,6-Trichlorophenol	0.050		U
95-95-4	2,4,5-Trichlorophenol	0.050		U
121-14-2	2,4-Dinitrotoluene	0.050		U
118-74-1	Hexachlorobenzene	0.050		U
87-86-5	Pentachlorophenol	0.050		U

### Qualifier Definitions

U = Undetected  
 B = Compound detected in method blank  
 E = Estimated value  
 J = Estimated concentration.  
 D = Dilution

# EMSL Analytical Inc.

## PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

Customer Sample#:		Sand-1		
Lab Name:	EMSL Analytical	Project:	Service Painting Sand	
EMSL Sample ID:	010903447-0001	Sample Matrix:	Solid	
Lab File ID:	G12047.D	Sampling Date:	7/9/2009	
Instrument ID:	G	Date Extracted:	7/17/2009	
Analyst:	TL	Analysis Date	7/20/2009 8:22:00 PM	
GC Column:	CLPest I (0.32 mm)	Sample wt/vol:	150 ML	
GC Column 2:	CLPest II (0.32 mm)	Dilution Factor:	1	
% Moisture:		Concentrated Extract Vol:	10 (ml)	
PH:		Injection Volume:	1 (ul)	
GPC Cleanup(Y/N):	N	Sulfur Cleanup:	N	
Extraction Type:	3510C			
Method:	SW846 8081/8082			

GAS NO	COMPOUND	Report Limit (mg/L)	CONC. (mg/L)	Q
58-89-9	gamma-BHC	0.0010		U
76-44-8	Heptachlor	0.0010		U
1024-57-3	Heptachlor Epoxide	0.0010		U
72-20-8	Endrin	0.0010		U
72-43-5	Methoxychlor	0.0020		U
1-35-2	Toxaphene	0.0070		U
51-74-9	Chlordane (n.o.s.)	0.0033		U

Qualifier Definitions  
 U = Undetected  
 B = Compound detected in method blank  
 E = Estimated value  
 D = Dilution  
 P = Results between the two columns differ >40%

# EMSL Analytical Inc.

## PCB ORGANICS ANALYSIS DATA SHEET

Customer Sample#:		Sand-1	
Lab Name:	EMSL Analytical	Project:	Service Painting Sand
EMSL Sample ID:	010903447-0001	Sample Matrix:	Solid
Lab File ID:	H05866.D	Sampling Date:	7/9/2009
Instrument ID:	HP-H	Date Extracted:	7/22/2009
Analyst:	EH	Analysis Date:	7/23/2009 5:45:00 PM
GC Column:	CLPest I (0.32 mm)	Sample wt/vol:	30.06 G
GC Column 2:	CLPest I (0.32 mm)	Dilution Factor:	1
% Moisture:	1	Concentrated Extract Vol:	10 (mL)
PH:		Injection Volume:	1 (ul)
GPC Cleanup(Y/N):	N	Sulfur Cleanup:	N
Extraction Type:	3550B		
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (ug/kg)	CONC. (ug/kg)	Q
12674-11-2	Aroclor 1016	34		U
11104-28-2	Aroclor 1221	34		U
11141-16-5	Aroclor 1232	34		U
53469-21-9	Aroclor 1242	34		U
12672-29-6	Aroclor 1248	34		U
1097-69-1	Aroclor 1254	34		U
306-82-5	Aroclor 1260	34		U

Qualifier Definitions  
 U = Undetected  
 B = Compound detected in method blank  
 E = Estimated value  
 D = Dilution  
 P = Results between the two columns differ >40%

# EMSL Analytical Inc.

## HERBICIDE ORGANICS ANALYSIS DATA SHEET

Customer Sample#:		Sand-1		
Lab Name:	EMSL Analytical	Project:	Service Painting Sand	
EMSL Sample ID:	010903447-0001	Sample Matrix:	Solid	
Lab File ID:	G12092.D	Sampling Date:	7/9/2009	
Instrument ID:	G	Date Extracted:	7/16/2009	
Analyst:	TL	Analysis Date	7/21/2009 1:23:00 PM	
GC Column:	CLPest I (0.32 mm)	Sample wt/vol:	50 ML	
GC Column 2:	CLPest II (0.32 mm)	Dilution Factor:	1	
% Moisture:		Concentrated Extract Vol:	10 (ml)	
PH:		Injection Volume:	1 (ul)	
GPC Cleanup(Y/N):	N	Sulfur Cleanup:	N	
Extraction Type:	3510C			
Method:	SW846 8151 TCLP			

CAS NO	COMPOUND	Report Limit (mg/L)	CONC. (mg/L)	Q
18625-12-2	2,4-D	0.040		U
4841-20-7	Silvex	0.040		U

Qualifier Definitions  
 U = Undetected  
 B = Compound detected in method blank  
 E = Estimated value  
 D = Dilution  
 Results between the two columns differ >40%



EMSL Analytical, Inc.  
3 Cooper Street  
Westmont, NJ 08108  
Phone: (856) 858-4800  
Fax: (856) 858-4571 (856) 854-2362

Chain of Custody  
Environmental Chemistry Lab Services  
Analysis Request Form

<http://www.emsl.com>

Project Name/Nbr: Service Painting Sand  
EMSL Rep: Scott Ross  
Indicate State where samples collected

PA

Please print all information legibly.

REPORT RESULTS TO:				SEND INVOICE TO:				TURNAROUND TIME																						
Name: Andrew Papp				Name: Andrew Papp				Date Results needed by:																						
Company: Millennium Health And Safety				Company: Millennium Health And Safety				Standard Turnaround Time is 10 working days <input checked="" type="checkbox"/>																						
Address: 70 Eastwick Dr.				Address: 70 Eastwick Dr.				The following turnaround times require lab approval:																						
City: Gibbsboro				City: Gibbsboro				<input type="checkbox"/> 4-5 days <input type="checkbox"/> 72 Hrs <input type="checkbox"/> 48 Hrs																						
State: NJ Zip: 08026				State: NJ Zip: 08026				<input type="checkbox"/> 24 Hrs. Approved by:																						
Country: USA				Country: USA																										
Tel: 856-466-4031 Fax:				Tel: 856-466-4031 Fax:																										
Email: millenniumhs@comcast.net				Email: millenniumhs@comcast.net																										
Sampled by: (Signature)				Number of Samples in Shipment				Date of Sample Shipment																						
Failure to complete items marked with * will hinder processing of samples				MATRIX				Method Preserved				Sampling				List Test Needed														
Sample Number	Station Location / Sample ID	COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	OTHER	DATE *	TIME *	TCLP-5/11	TCLP-1726													
1. SAND-1								X						7/10	1400	X														
2. VOA-1								X						7/10	1400		X													
3.																														
4.																														
5.																														
6.																														
7.																														
8.																														
Released By Signature				Date & Time Released				Delivery Method				Received By Signature				Agency				Date and Time Received				Condition Noted						
[Signature]				7/10/09 1300								[Signature]				EMSL				7/10/09 3:45				27°C noice						
Comments:				Please Indicate reporting requirements <input checked="" type="checkbox"/> 1. Results only <input type="checkbox"/> 2. Results and QC <input type="checkbox"/> 3. Reduced Deliverables <input type="checkbox"/> 4. Disk Deliverable																										

Requested Parameters on attached

Per Andy run sheet attached lost. 7/14

\* Full TCLP PER ANDY - 7/10/09 5pm

OK PER ANDY

TABLE A PARAMETERS

	Parameter Name	Type	Category	Limits	Units	85% of Limit
<input type="checkbox"/>	Ignitibility	As Received		>140	F	
<input type="checkbox"/>	Oil & Grease	As Received			mg/kg	
<input type="checkbox"/>	Paint Filter Test	As Received		No free liquids		
<input type="checkbox"/>	PCB's	As Received		50		
<input type="checkbox"/>	pH	As Received		2 - 12.5	S.U.	
<input type="checkbox"/>	Reactive Cyanide	As Received		100		
<input type="checkbox"/>	Reactive Sulfide	As Received		500		
<input type="checkbox"/>	Total Solids	As Received				
<input type="checkbox"/>	Total Volatile Solids	As Received				
<input type="checkbox"/>	Ammonia-Nitrogen	ASTM		111111	mg/l	
<input type="checkbox"/>	Chemical Oxygen Demand	ASTM				
<input type="checkbox"/>	Oil & Grease	ASTM		88550	mg/l	
<input type="checkbox"/>	Total Solids	ASTM				
<input type="checkbox"/>	pH	TCLP				
<input type="checkbox"/>	Arsenic	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Barium	TCLP	Metals	100	mg/l	85
<input type="checkbox"/>	Cadmium	TCLP	Metals	1	mg/l	0.85
<input type="checkbox"/>	Chromium	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Copper	TCLP	Metals	167	mg/l	142
<input type="checkbox"/>	Lead	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Mercury	TCLP	Metals	0.2	mg/l	0.17
<input type="checkbox"/>	Nickel	TCLP	Metals	242	mg/l	206
<input type="checkbox"/>	Selenium	TCLP	Metals	1	mg/l	0.85
<input type="checkbox"/>	Silver	TCLP	Metals	5	mg/l	4.25
<input type="checkbox"/>	Zinc	TCLP	Metals	1875	mg/l	1594
<input type="checkbox"/>	2,4-D	TCLP	Herb	10	mg/l	8.5
<input type="checkbox"/>	2,4,5-TP	TCLP	Herb	1	mg/l	0.85
<input type="checkbox"/>	Chlordane	TCLP	Pest	0.03	mg/l	0.0255
<input type="checkbox"/>	Endrin	TCLP	Pest	0.02	mg/l	0.017
<input type="checkbox"/>	Heptachlor	TCLP	Pest	0.008	mg/l	0.0068
<input type="checkbox"/>	Heptachlor Epoxide	TCLP	Pest	0.008	mg/l	0.0068
<input type="checkbox"/>	Lindane	TCLP	Pest	0.4	mg/l	0.34
<input type="checkbox"/>	Methoxychlor	TCLP	Pest	10mg/l	8.5	
<input type="checkbox"/>	Toxaphene	TCLP	Pest	0.5	mg/l	0.425
<input type="checkbox"/>	2,4,5-trichlorophenol	TCLP	Acids	400	mg/l	340
<input type="checkbox"/>	2,4,6-trichlorophenol	TCLP	Acids	2	mg/l	1.7
<input type="checkbox"/>	m-cresol	TCLP	Acids	200	mg/l	170
<input type="checkbox"/>	o-cresol	TCLP	Acids	200	mg/l	170
<input type="checkbox"/>	p-cresol	TCLP	Acids	200	mg/l	170
<input type="checkbox"/>	Pentachlorophenol	TCLP	Acids	100	mg/l	85
<input type="checkbox"/>	2,4-dinitrotoluene	TCLP	Base/Neutral	0.13	mg/l	0.1105
<input type="checkbox"/>	Hexachlorobenzene	TCLP	Base/Neutral	0.13	mg/l	0.1105
<input type="checkbox"/>	Hexachlorobutadiene	TCLP	Base/Neutral	0.5	mg/l	0.425
<input type="checkbox"/>	Hexachloroethane	TCLP	Base/Neutral	3	mg/l	2.55



TABLE A PARAMETERS

	Parameter Name	Type	Category	Limits	Units	85% of Limit
<input type="checkbox"/>	Nitrobenzene	TCLP	Base/Neutral	2	mg/l	1.7
<input type="checkbox"/>	Pyridine	TCLP	Base/Neutral	5	mg/l	4.25
<input type="checkbox"/>	1,1-dichloroethylene	TCLP	Volatiles	0.7	mg/l	0.595
<input type="checkbox"/>	1,2-dichloroethane	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	1,4-dichlorobenzene	TCLP	Volatiles	7.5	mg/l	6.375
<input type="checkbox"/>	Benzene	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	Carbon Tetrachloride	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	Chlorobenzene	TCLP	Volatiles	100	mg/l	85
<input type="checkbox"/>	Chloroform	TCLP	Volatiles	8	mg/l	6.8
<input type="checkbox"/>	Methyl ethyl ketone	TCLP	Volatiles	200	mg/l	170
<input type="checkbox"/>	Tetrachloroethylene	TCLP	Volatiles	0.7	mg/l	0.595
<input type="checkbox"/>	Trichloroethylene	TCLP	Volatiles	0.5	mg/l	0.425
<input type="checkbox"/>	Vinyl Chloride	TCLP	Volatiles	0.2	mg/l	0.17

## EMSL Analytical, Inc.

<http://www.emsl.com>

200 Route 130 North  
Cinnaminson, NJ 08077  
Phone: (856) 856-4800  
Fax: (856) 856-4571

Attn: Andrew Papp  
Millennium Health & Safety, Inc.  
70 Eastwick Drive  
Gibbsboro, NJ 08026

Phone: (856) 466-4031

Fax: (856) 566-4131

3/1/2012

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/17/2012. The results are tabulated on the attached data pages for the following client designated project:

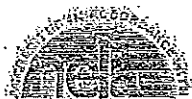
### Service Painting

The reference number for these samples is EMSL Order #011200788. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 856-4800.

Reviewed and Approved By:



Julie Smith - Laboratory Director or other approved  
signatory



The test results contained within this report meet the requirements of NELAP...  
and/or the specific certification program that is applicable, unless otherwise noted.  
NELAP Certifications: NJ 08036, NY 10886, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



EMSL Analytical, Inc.

209 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 556-4000 Fax: (856) 556-4511 Email: jsmith@emsl.com

Attn: Andrew Papp  
Millennium Health & Safety, Inc.  
70 Eastwick Drive  
Gibbsboro, NJ 08026

Customer ID: MHSF78  
Customer PO: AC 01461912  
Received: 02/17/12 4:30 PM  
EMSL Order: 011200788

Fax: (856) 556-4131 Phone: (856) 466-4031  
Project: Service Painting

### Analytical Results

Client Sample Description		Service Paint	Collected:	2/17/2012	Lab ID:	0001
Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
TCLP 1311/6010B	Arsenic	ND	0.20	mg/L	2/29/2012	bely
TCLP 1311/6010B	Barium	1.1	1.0	mg/L	2/29/2012	bely
TCLP 1311/6010B	Cadmium	ND	0.20	mg/L	2/29/2012	bely
TCLP 1311/6010B	Chromium	ND	0.20	mg/L	2/29/2012	bely
TCLP 1311/6010B	Lead	ND	0.20	mg/L	2/29/2012	bely
TCLP 1311/6010B	Selenium	ND	0.20	mg/L	2/29/2012	bely
TCLP 1311/6010B	Silver	ND	0.20	mg/L	2/29/2012	bely
TCLP 1311/7470A	Mercury	ND	0.0020	mg/L	2/24/2012	Jussell
TCLP 1311/78260B Volatiles	See Attached	N/A			2/23/2012	af3/502

#### Definitions:

ND - indicates that the analyte was not detected at the reporting limit

EMSL Analytical Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: EMSL ANALYTICAL		Customer Sample#: Service Paint
EMSL Sample ID: 011200788-0001	Project:	
Lab File ID: T8541.D	Sample Matrix:	Leachate
Instrument ID: VOA MSD-T	Sampling Date:	2/17/2012
Analyst: AF	Analysis Date:	2/23/2012 5:58:00 PM
GC Column: RTX-VMS X 60m (0.25 mm)	Level (low/med):	LOW
Sample wt/vol: 0.300 ML	Nominal Amount:	0.005 ML
Dilution Factor: 1	Method:	SW846 8260B TCLP

CAS NO	COMPOUND	Report Limit (mg/L)	CONC. (mg/L)	Q
75-01-4	Vinyl chloride	0.017		U
76-35-4	1,1-Dichloroethene	0.017		U
78-93-3	2-Butanone	0.033		U
67-66-3	Chloroform	0.017		U
56-23-1	Carbon tetrachloride	0.017		U
71-43-2	Benzene	0.017		U
107-06-2	1,2-Dichloroethane	0.017		U
79-01-6	Trichloroethene	0.017		U
127-18-4	Tetrachloroethene	0.017		U
108-90-7	Chlorobenzene	0.017		U

Qualifier Definitions  
 U = Undetected  
 B = Compound detected in method blank  
 E = Estimated value  
 J = Estimated concentration.  
 D = Dilution



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS DIVISION

# Environmental Chemistry

## Chain of Custody

EMSL Order Number (Lab Use Only):

011200788

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077

PHONE: (800) 221-3675  
FAX: (856) 786-5974

Report To Contact Name:				Bill To Company: SAME			
Company Name: Millennium Health + Safety				Attention To:			
Street: 70 Eastwick Dr.				Street:			
City: Abbsboro		State/Province: NJ		Zip/Postal Code: 08026		City:	
Phone: 856-466-4031		Fax:		Phone:		Fax:	
Project Name: Service Painting				Email Results To:		U.S. State where Samples Collected: PA	
Number of Samples in Shipment: 1		Date of Shipment:		Purchase Order: CCH-011200788		Sampled By (Signature):	
Standard Turnaround Time: 2 Weeks		The following TAT's are subject to lab approval: <input checked="" type="checkbox"/> 4 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day					
Failure to complete will hinder processing of samples				List Test(s) Needed			
Client Sample ID	Comp	Grab	Date/Time	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	Comments	
① Service Paint			2/17/12	0	5-color	TCLP Metals (5) ROR4*	
						TCLP VOA	
Released By (Signature):				Date & Time:		Received By:	
[Signature]				2/17/12 @ 1610 hrs		[Signature] (W)	
						2/17/12 4:30 pm	
Please indicate reporting requirements: <input checked="" type="checkbox"/> Results Only <input type="checkbox"/> Results and QC <input type="checkbox"/> Reduced Deliverables <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other							
Instructions or Comments:							

WASTE MANAGEMENT EASTERN PA MARKET AREA  
444 Oxford Valley Road  
Langhorne, PA 19047  
(800) 963-4776 - Technical Service Center

Document Refer No. 08 109950

### NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name: SERVICE PARTS Company Contact: \_\_\_\_\_  
Pick-up Address: 200 PRILE ST (No.) (Street) TRAVERSE (City) PA (State)  
Telephone Number: 610-497-4069 SIC No. \_\_\_\_\_  
Waste Stream Identification: \_\_\_\_\_ This manifest represents a non-hazardous waste as per EPA and PADEP regulations.  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste: SAND  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/ WASTE STREAM I.D. NUMBER: 100467PAE

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11-11-09

Signature: [Signature]  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. \_\_\_\_\_  
COMPANY NAME: WASTE MANAGEMENT  
ADDRESS: 408 S OAK AVE PRINCE  
Pick-up Date: 11-11-09 Truck No. 377 Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and Was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Print name & title of authorized agent: \_\_\_\_\_

Signature of authorized agent: [Signature]

3. Disposer of Waste (must be filled-in by disposer)

CIRCLE ONE:

G.R.O.W.S. Landfill 1513 Bordentown Rd. Morrisville, PA 19067 Permit # 100148 (215) 736-0195	Tullytown Resource Recovery Facility (T.R.R.F.) 200 Bordentown Rd. Tullytown, PA 19007 PADEP Permit # 101494 (215) 736-0195	G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Letzberg Rd. Greencastle, PA 17225 PADEP Permit # 101100 (717) 597-5535
Alliance Sanitary Landfill 398 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (717) 597-1000	Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 663-2400	Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (570) 343-2111	

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on

(DISPOSAL DATE)

Waste Discrepancies: \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_

GENERATOR



# INVOICE

Page 1 of 3

Customer: SERVICE PAINTING INC  
 Account Number: 449-0039838-2448-7  
 Invoice Date: 11/16/2009  
 Invoice Number: 1554353-2448-0  
 Due Date: Due Upon Receipt  
 WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount Total Amount Due

2,518.61

2,601.11

## Account Summary

Description	Amount
Previous Balance	82.50
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	2,518.61
<b>Total Amount Due</b>	<b>2,601.11</b>
Total Amount Past Due	0.00

Service Period: NOV 2009

Description	Amount
Roll-Off	2,518.61
<b>Total Current Charges</b>	<b>2,518.61</b>

Please pay total amount due. Thank you for your business.



If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
2,601.11	0.00	0.00	0.00	0.00	2,601.11



Waste Management of Pennsylvania, Inc.  
 408 S Oak Ave  
 Primos, PA 19018

(610) 266-7500  
 (800) 577-7814 FAX  
 (215) 269-1671 FAX

Learn how we Think Green at  
[www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number

449-0039838-2448-7

Invoice Date

11/16/2009

Your Invoice Number

1554353-2448-0

Due Date

Upon Receipt

Total Due

2,601.11

Amount Paid

Waste Management introduces WM ezPay!! Pay your WM bill on-line at [www.wm.com](http://www.wm.com).

To pay your invoice by phone, call 866-WMI-2PAY or 866-964-2729.

24484490039838015543530000025186100000260111 4

0000221.01 AT 0.357 \*\*AUTO T1 02821 19061 CP1 I2392024



SERVICE PAINTING INC  
 200 PRICE ST  
 TRAINER PA 19061-5104



WASTE MANAGEMENT OF PA INC  
 WASTE MANAGEMENT-SOUTH  
 PO BOX 13648  
 Philadelphia PA 19101-3648

000161082562005



Printed on recycled paper.

From everyday collection to environmental protection,  
 Think Green. Think Waste Management.  
 FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT NUMBER ON BACK



# INVOICE

Page 1 of 3

Customer: SERVICE PAINTING INC  
 Account Number: 449-0039838-2448-7  
 Invoice Date: 11/16/2009  
 Invoice Number: 1554353-2448-0  
 Due Date: Due Upon Receipt  
 WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount Total Amount Due

2,518.61 2,601.11

Waste Management of Pennsylvania, Inc.  
 408 S Oak Ave  
 Pric PA 19018  
 (610) 626-7500  
 (800) 577-7814 FAX  
 (215) 269-1671 FAX

## Account Summary

Description	Amount
Previous Balance	82.50
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	2,518.61
<b>Total Amount Due</b>	<b>2,601.11</b>
Total Amount Past Due	0.00

Service Period: NOV 2009

Please pay total amount due. Thank you for your business.

Description	Amount
Roll-Off	2,518.61
<b>Total Current Charges</b>	<b>2,518.61</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
2,601.11	0.00	0.00	0.00	0.00	2,601.11



## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number

449-0039838-2448-7

Waste Management introduces WM ezPay!! Pay your WM bill on-line at [www.wm.com](http://www.wm.com).

Invoice Date

11/16/2009

Your Invoice Number

1554353-2448-0

To pay your invoice by phone, call 866-WMI-2PAY or 866-964-2729.

Due Date

Total Due

Amount Paid

Upon Receipt

2,601.11

Waste Management of Pennsylvania, Inc.  
 408 S Oak Ave  
 Pricas, PA 19018

(610) 626-7500  
 (800) 577-7814 FAX  
 (215) 269-1671 FAX

Learn how we Think Green at [www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

24484490039838015543530000025186100000260111 4

0000221 01 AT 0.357 \*\*AUTO T1 0 2821 19061

CP1 I2392024



SERVICE PAINTING INC  
 200 PRICE ST  
 TRAINER PA 19061-5104



WASTE MANAGEMENT OF PA INC  
 WASTE MANAGEMENT-SOUTH  
 PO BOX 13648  
 Philadelphia PA 19101-3648

000161082562005

From everyday collection to environmental protection,  
 Think Green. Think Waste Management.

FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT YOUR SERVICE REPRESENTATIVE

Printed on  
 recycled paper.



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Page 3 of 3  
Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 11/16/2009  
Invoice Number: 1554353-2448-0  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/09/09	223337	Disposal per ton	14.12			988.40
11/09/09	223337	Liner	1.00			30.00
11/09/09	223337	20 Yd special waste	1.00			210.00
11/11/09	226694	Disposal per ton	11.81			826.70
11/11/09	226694	Liner	1.00			30.00
11/11/09	226694	20 Yd special waste	1.00			210.00
11/16/09		1.00 Fuel/environmental charge	1.00			223.51

Total Current Charges 2,518.61

61-449-223337-1513

To BLAIR THOMAS

610-476-6977



Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 11/16/2009  
Invoice Number: 1554353-2448-0  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

Service Location: 449-39838 Service Painting Inc: 200 Price St. Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/09/09	223337	Disposal per ton	14.12			988.40
11/09/09	223337	Liner	1.00		Supplied by Service	<del>39.86</del>
11/09/09	223337	20 Yd special waste	1.00			210.00
11/11/09	226694	Disposal per ton	11.81			826.70
11/11/09	226694	Liner	1.00		Supplied by Service	<del>39.86</del>
11/11/09	226694	20 Yd special waste	1.00			210.00
11/16/09		1.00 Fuel/environmental charge	1.00		570	223.51

Total Current Charges

2,518.61

2235.10  
111.76  
2346.86





Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Page 3 of 3  
Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 11/16/2009  
Invoice Number: 1554353-2448-0  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/09/09	223337	Disposal per ton	14.12			988.40
11/09/09	223337	Liner	1.00		Supplied by Service	<del>30.00</del>
11/09/09	223337	20 Yd special waste	1.00			210.00
11/11/09	226694	Disposal per ton	11.81			826.70
11/11/09	226694	Liner	1.00		Supplied by Service	<del>30.00</del>
11/11/09	226694	20 Yd special waste	1.00			210.00
11/16/09		1.00 Fuel/environmental charge	1.00		570	223.51
Total Current Charges						2,518.61

2235.10  
111.76  

---

2346.86

WASTE MANAGEMENT EASTERN PA MARKET AREA  
444 Oxford Valley Road  
Langhorne, PA 19047

Document Refer No. 08 105443

(800) 963-4776 -- Technical Service Center

### NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name: SERVICE PAINTING INC. Company Contact: \_\_\_\_\_  
(Print or Type) (Print or Type)  
Pick-up Address 200 PRICE ST TRAMER PA  
(No.) (Street) (City) (State)  
Telephone Number: 610-497-4069 SIC No. \_\_\_\_\_  
Waste Stream Identification: \_\_\_\_\_ This manifest represents a non-hazardous waste as per EPA and PADEP regulations.  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste SAND  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/ WASTE STREAM I.D. NUMBER: 100467PAE

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11-16-88 Signature: [Signature]  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. \_\_\_\_\_  
COMPANY NAME: WASTE MANAGEMENT  
ADDRESS: 408 SOAK AVE PRINCETON  
Pick-up Date: 11-16-89 Truck No. 377 Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and Was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Print name & title of authorized agent: \_\_\_\_\_  
Signature of authorized agent: [Signature]

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S. Landfill 1513 Bordentown Rd. Morrisville, PA 19067 Permit # 100148 (215) 736-0195	Tullytown Resource Recovery Facility (T.R.R.F) 200 Bordentown Rd. Tullytown, PA 19007 PADEP Permit # 101494 (215) 736-0195	G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Letzburg Rd. Greencastle, PA 17225 PADEP Permit # 101100 (717) 597-5535
Alliance Sanitary Landfill 398 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (570) 543-2111	Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 665-2700	Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (570) 543-2111	

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on

(DISPOSAL DATE)

Waste Discrepancies: \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_

GENERATOR

WASTE MANAGEMENT EASTERN PA MARKET AREA  
444 Oxford Valley Road  
Langhorne, PA 19047  
(800) 963-4776 - Technical Service Center

Document Refer No. 08 109953

### NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name: Waste Management Company Contact: \_\_\_\_\_  
(Print or Type) (Print or Type)  
Pick-up Address: 2400 S. 10th St.  
(No.) (Street) (City) (State)  
Telephone Number: 610 417 4019 SIC No. \_\_\_\_\_  
Waste Stream Identification: \_\_\_\_\_ This manifest represents a non-hazardous waste as per EPA and PADEP regulations.  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste: SAND  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/ WASTE STREAM I.D. NUMBER: 100467806

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11-23-09

Signature: \_\_\_\_\_  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. \_\_\_\_\_  
COMPANY NAME: Waste Management  
ADDRESS: 408 S. 01st Ave. P.R. 11145  
Pick-up Date: 11-23-09 Truck No. 377 Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and Was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Print name & title of authorized agent: \_\_\_\_\_

Signature of authorized agent: Wayne P. ...

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S. Landfill 1513 Bordentown Rd. Morrisville, PA 19067 Permit # 100148 (215) 736-0195	Tullytown Resource Recovery Facility (T.R.R.F.) 200 Bordentown Rd. Tullytown, PA 19007 PADEP Permit # 101494 (215) 736-0195	G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Letzburg Rd. Greencastle, PA 17225 PADEP Permit # 101100 (717) 597-5535
Alliance Sanitary Landfill 398 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (610) 562-1600	Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 663-2400	Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (610) 542-2111	

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on

\_\_\_\_\_ (DISPOSAL DATE)

Waste Discrepancies: \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_

GENERATOR



# INVOICE

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primer PA 19018  
(610) 526-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/01/2009  
Invoice Number: 1558236-2448-3  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount	Total Amount Due
3,035.28	5,636.39

## Account Summary

Description	Amount
Previous Balance	2,601.11
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	3,035.28
<b>Total Amount Due</b>	<b>5,636.39</b>
Total Amount Past Due	2,601.11

Please pay total amount due. Thank you for your business.



## Service Period: NOV 2009

Description	Amount
Roll-Off	3,035.28
<b>Total Current Charges</b>	<b>3,035.28</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
3,035.28	2,601.11	0.00	0.00	0.00	5,636.39



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primer, PA 19018  
(610) 526-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX  
Learn how we Think Green at [www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number 449-0039838-2448-7		
Invoice Date 12/01/2009	Your Invoice Number 1558236-2448-3	
Due Date Upon Receipt	Total Due 5,636.39	Amount Paid

Waste Management introduces WM ezPay!! Pay your WM bill on-line at [www.wm.com](http://www.wm.com). To pay your invoice by phone, call 866-WMI-2PAY or 866-964-2729.

24484490039838015582360000030352800000563639 5

0001680 01 AT 0.357 \*\*AUTO T9 2 2835 19051 CP1 I2392026  
SER: PAINTING INC  
200 PRICE ST  
PRIMER PA 19061-5104

WASTE MANAGEMENT OF PA INC  
WASTE MANAGEMENT-SOUTH  
PO BOX 13648  
Philadelphia PA 19101-3648

From everyday collection to environmental protection,  
Think Green. Think Waste Management.  
FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT NUMBER ON PAGE 4

Printed on recycled paper.

000161082562005



# INVOICE

Page 1 of 3

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pitts PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/01/2009  
Invoice Number: 1558236-2448-3  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount Total Amount Due

3,035.28

5,636.39

## Account Summary

Description	Amount
Previous Balance	2,601.11
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	3,035.28
<b>Total Amount Due</b>	<b>5,636.39</b>
Total Amount Past Due	2,601.11

Service Period: NOV 2009

Description	Amount
Roll-Off	3,035.28
<b>Total Current Charges</b>	<b>3,035.28</b>

Please pay total amount due. Thank you for your business.

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
3,035.28	2,601.11	0.00	0.00	0.00	5,636.39



Waste Management of Pennsylvania, Inc.  
38 S Oak Ave  
Pitts, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Learn how we Think Green at  
[www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number

449-0039838-2448-7

Invoice Date

12/01/2009

Your Invoice Number

1558236-2448-3

Due Date

Total Due

Amount Paid

Upon Receipt

5,636.39

Waste Management introduces WM ezPay! Pay your WM bill on-line at [www.wm.com](http://www.wm.com).

To pay your invoice by phone, call 866-WMI-2PAY or 866-964-2729.

24484490039838015582360000030352800000563639 5

0001590 01 AT 0.357 \*\*AUTO T9 2 2838 19061

CP1 I2392026



SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 19061-5104

WASTE MANAGEMENT OF PA INC  
WASTE MANAGEMENT-SOUTH  
PO BOX 13648  
Philadelphia PA 19101-3648

000161082562005

From everyday collection to environmental protection,  
Think Green. Think Waste Management.

FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT YOUR SERVICE REPRESENTATIVE



Printed on  
recycled paper



Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/01/2009  
Invoice Number: 1558236-2448-3  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Service Location: 449-39838 Service Painting Inc; 200 Price St; Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/16/09	228642	Disposal per ton	16.53			1,157.10
11/16/09	228642	Liner	1.00			30.00
11/16/09	228642	20 Yd special waste	1.00		Supplied by Service Painting	210.00
11/23/09	232430	Disposal per ton	16.11			1,127.70
11/23/09	232430	Liner	1.00		Supplied by Service Painting	30.00
11/23/09	232430	20 Yd special waste	1.00			210.00
12/01/09		1.00 Fuel/environmental charge	1.00		5% $\leftarrow$	270.48

Total Current Charges 3,035.28

2704.80  
135.24  
2840.04





Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/01/2009  
Invoice Number: 1558236-2448-3  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/16/09	228642	Disposal per ton	16.53			1,157.10
11/16/09	228642	Liner	1.00			30.00
11/16/09	228642	20 Yd special waste	1.00		Supplied by Service Painting	210.00
11/23/09	232430	Disposal per ton	16.11			1,127.70
11/23/09	232430	Liner	1.00		Supplied by Service Painting	30.00
11/23/09	232430	20 Yd special waste	1.00			210.00
12/01/09		1.00 Fuel/environmental charge	1.00		5% fee	270.48
Total Current Charges						3,035.28

2704.80  
135.24  
2840.04



WASTE MANAGEMENT-PHILADELPHIA  
408 SOUTH OAK AVENUE  
PRIMOS, PA 19018  
(610) 626-7500  
(610) 622-0767 FAX

Job#: 228921 Driver: WARNER BROOKS  
At: BYE PFOLWEIL  
Company: 449-89880 SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 17061-5104

Date Requested: 12/07/2009  
Date Dispatched: 12/08/2009

610-497-4044

By: NICK BARAVELAS  
Requested by: CHRIS

Load Type: SWITCH OUT

Map Code: Map Grid:

Service	Quantity	P	Yds	Type	Weight	Job	Special Description
YD SPECIAL WASTE	1.00	P	20	SAND			
SPECIAL PER TON	1.00	P					

95 SOUTH VIA THE RAMP TO CHESTER/ WILMINGTON TAKE EXIT 388 FOR HIGHLAN  
AVE TOWARD US-322 W/W CHESTER TURN RIGHT AT HIGHLAND AVE TURN RIGHT AT  
2nd st/PA-291 W end at 200 Price st. DPS AWARE

\*\*\*\*\* PROFILE NUMBER FOR SAND 100467PAE \*\*\*\*\*

Signature: Chris Baravelas

Date: \_\_\_\_\_

**WASTE MANAGEMENT OF PENNSYLVANIA, INC.**1121 Bordentown Road  
Morrisville, PA 19067

Document Refer No. 03 10002

(215) 736-9400

(215) 736-0195 Laboratory

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_

Company Name (Print or Type) Service Landfill Inc.Pick-up Address 200 Price St. Tinton PATelephone Number: (No.) (Street) 610-497-4069 (City) Tinton State PA SIC No. \_\_\_\_\_Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R regulationsTons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_Name of Waste SAND

Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/WASTE STREAM I.D. NUMBER: 100467/AE

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 12 / 1 /Signature: \_\_\_\_\_  
(Name and Title)2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. PAD 049642374COMPANY NAME: Waste Management of Philadelphia Hauling - SouthADDRESS: 408 S. Oak Ave., Primos PA 19018Pick-up Date: 12 / 1 / Truck No. \_\_\_\_\_ Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Signature of authorized agent and title: \_\_\_\_\_

3. Disposer of Waste (must be filled in by disposer) CIRCLE ONE:

**G.R.O.W.S., INC.**

1513 Bordentown Road

Morrisville, PA 19067

Permit # 100148

**T.R.R.F.**

200 Bordentown Road

Tullytown, PA 19007

Permit # 101494

**AMERICAN REF-FUEL**

10 Highland Avenue

Chester, PA 19013

Permit # 400593

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on \_\_\_\_\_ (DISPOSAL DATE)

Signature of authorized agent and title: \_\_\_\_\_

WASTE MANAGEMENT OF PENNSYLVANIA, INC.  
1121 Bordentown Road  
Morrisville, PA 19067

Document Refer No. 03 00003

(215) 736-9400  
(215) 736-0195 Laboratory

NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name (Print or Type) SERVICE TRAILER INC.  
Pick-up Address 200 WILCE STREET TRAMER, PA  
Telephone Number: (10) 417-4019 SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R regulations  
Tons: 2.5 Cubic Yards: 220 Other (Specify): \_\_\_\_\_  
Name of Waste SAND  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/WASTE STREAM I.D. NUMBER: 100467FAE

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 12/15/07

Signature: \_\_\_\_\_  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. PAD 049642374  
COMPANY NAME: Waste Management of Philadelphia Hauling - South  
ADDRESS: 408 S. Oak Ave., Primos PA 19018

Pick-up Date: 12/15/07 Truck No. 377 Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Signature of authorized agent and title: Wayne Leamon

3. Disposer of Waste (must be filled in by disposer) CIRCLE ONE:  

<b>G.R.O.W.S., INC.</b>	<b>T.R.R.F.</b>	<b>AMERICAN REF-FUEL</b>
1513 Bordentown Road	200 Bordentown Road	10 Highland Avenue
Morrisville, PA 19067	Tullytown, PA 19007	Chester, PA 19013
Permit # 100148	Permit # 101494	Permit # 400593

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on \_\_\_\_\_ (DISPOSAL DATE)

Signature of authorized agent and title: \_\_\_\_\_



# INVOICE

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/16/2009  
Invoice Number: 1561498-2448-4  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Current Invoice Amount	Total Amount Due
3,369.49	3,818.98

## Account Summary

Description	Amount
Previous Balance	5,636.39
Total Credits and Adjustments	0.00
Total Payments Received	5,186.90
Total Current Charges	3,369.49
<b>Total Amount Due</b>	<b>3,818.98</b>
<b>Total Amount Past Due</b>	<b>0.00</b>

## Service Period: DEC 2009

Description	Amount
Roll-Off	3,369.49
<b>Total Current Charges</b>	<b>3,369.49</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Please pay total amount due. Thank you for your business.



Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
3,818.98	0.00	0.00	0.00	0.00	3,818.98



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

Page 3 of 3  
Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/16/2009  
Invoice Number: 1561498-2448-4  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/08/09	238931	Disposal per ton	17.79			1,245.30
12/08/09	238931	20 Yd special waste	1.00			210.00
12/15/09	242363	Disposal per ton	19.58			1,370.60
12/15/09	242363	Liner	1.00			30.00
12/15/09	242363	20 Yd special waste	1.00			210.00
12/16/09		1.00 Fuel/environmental charge	1.00			303.59
Total Current Charges						3,369.49

Payments Received Detail

Payment - thank you	5,186.90-
Total Payments Received	5,186.90-



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

Page 3 of 3  
Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 12/16/2009  
Invoice Number: 1561498-2448-4  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc. 200 Price St. Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/08/09	238931	Disposal per ton	17.79			1,245.30
12/08/09	238931	20 Yd special waste	1.00			210.00
12/15/09	242363	Disposal per ton	19.58			1,370.60
12/15/09	242363	Liner	1.00			<del>30.00</del>
12/15/09	242363	20 Yd special waste	1.00			210.00
12/16/09		1.00 Fuel/environmental charge	1.00			<del>303.50</del>

Total Current Charges

~~3,869.40~~  
3187.69

Payments Received Detail

Payment - thank you	5,186.90-
---------------------	-----------

Total Payments Received

5,186.90- *ch*

From everyday collection to environmental protection,  
Think Green® Think Waste Management.

FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT NUMBER 800-368-5847



Printed on  
recycled paper

WASTE MANAGEMENT OF PENNSYLVANIA, INC.  
1121 Bordentown Road  
Morrisville, PA 19067

Document Refer No. 03 100004

(215) 736-9400  
(215) 736-0195 Laboratory

NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name (Print or Type) Waste Management of Philadelphia Hauling - South  
Pick-up Address 408 S. Oak Ave. Primos PA  
(No.) (Street) (City) State  
Telephone Number: 610 497-1087 SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations  
Tons: 1.5 Cubic Yards: 2.5 Other (Specify): \_\_\_\_\_  
Name of Waste sewage  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/WASTE STREAM I.D. NUMBER: 100467112

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/18/77

Signature: \_\_\_\_\_  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. PAD 049642374  
COMPANY NAME: Waste Management of Philadelphia Hauling - South  
ADDRESS: 408 S. Oak Ave., Primos PA 19018

Pick-up Date: 1/18/77 Truck No. 111312 Vehicle Lic. No. 7-101-1000

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Signature of authorized agent and title: \_\_\_\_\_

3. Disposer of Waste (must be filled in by disposer) CIRCLE ONE:  

<b>G.R.O.W.S., INC.</b>	<b>T.R.R.F.</b>	<b>AMERICAN REF-FUEL</b>
1513 Bordentown Road	200 Bordentown Road	10 Highland Avenue
Morrisville, PA 19067	Tullytown, PA 19007	Chester, PA 19013
Permit # 100148	Permit # 101494	Permit # 400593

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on \_\_\_\_\_ (DISPOSAL DATE)

Signature of authorized agent and title: \_\_\_\_\_

WASTE MANAGEMENT OF PENNSYLVANIA, INC.  
1121 Bordentown Road  
Morrisville, PA 19067

Document Refer No. 03 00007

(215) 736-9400  
(215) 736-0195 Laboratory

NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name (Print or Type) Waste Management of Philadelphia Hauling - South  
Pick-up Address 408 S. Oak Ave., Primos PA 19018  
(No.) (Street) (City) State  
Telephone Number: \_\_\_\_\_ SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R regulations  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste Soil  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/WASTE STREAM I.D. NUMBER: 1004671DE

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 12/31/09

Signature: \_\_\_\_\_  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. PAD 049642374  
COMPANY NAME: Waste Management of Philadelphia Hauling - South  
ADDRESS: 408 S. Oak Ave., Primos PA 19018

Pick-up Date: 12/31/09 Truck No. 40791 Vehicle Lic. No. 7XM8232

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Signature of authorized agent and title: \_\_\_\_\_

3. Disposer of Waste (must be filled in by disposer) CIRCLE ONE:  

<b>G.R.O.W.S., INC.</b>	<b>T.R.R.F.</b>	<b>AMERICAN REF-FUEL</b>
1513 Bordentown Road	200 Bordentown Road	10 Highland Avenue
Morrisville, PA 19067	Tuliytown, PA 19007	Chester, PA 19013
Permit # 100148	Permit # 101494	Permit # 400593

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on \_\_\_\_\_ (DISPOSAL DATE)

Signature of authorized agent and title: \_\_\_\_\_



# INVOICE

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

O) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 01/01/2010  
Invoice Number: 1565269-2448-5  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount	Total Amount Due
2,969.06	6,435.54


## Account Summary

Description	Amount
Previous Balance	3,818.98
Total Credits and Adjustments	352.50-
Total Payments Received	0.00
Total Current Charges	2,969.06
<b>Total Amount Due</b>	<b>6,435.54</b>
Total Amount Past Due	3,466.48

## Service Period: DEC 2009

Description	Amount
Roll-Off	2,969.06
<b>Total Current Charges</b>	<b>2,969.06</b>

Please pay total amount due. Thank you for your business.



If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

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Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
2,969.06	3,466.48	0.00	0.00	0.00	6,435.54



Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 01/01/2010  
Invoice Number: 1565269-2448-5  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

**Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104**

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/18/09	244277	Disposal per ton	16.43			1,150.10
12/18/09	244277	Liner	1.00			30.00
12/18/09	244277	20 Yd special waste	1.00			210.00
12/31/09	249666	Disposal per ton	15.35			1,074.50
12/31/09	249666	Liner	1.00			30.00
12/31/09	249666	20 Yd special waste	1.00			210.00
01/01/10		1.00 Fuel/environmental charge	1.00			264.46
<b>Total Current Charges</b>						<b>2,969.06</b>

**Credits and Adjustments Detail**

12/23/2009 Credit r/o	60.00-
12/23/2009 Credit r/o	210.00-
12/23/2009 Credit r/o	75.00-
12/23/2009 Credit fuel r/o	7.50-
<b>Total Credits and Adjustments</b>	<b>352.50-</b>

From everyday collection to environmental protection,  
Think Green. Think Waste Management.

FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT NUMBER ON PAGE 4





# INVOICE

Waste Management of Pennsylvania, Inc.  
1008 S Oak Ave  
Pittsburgh, PA 15018

(412) 626-7500  
(412) 577-7814 FAX  
(412) 269-1671 FAX

Page 1 of 1

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 01/16/2010  
Invoice Number: 1567149-2448-7  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount      Total Amount Due

4.18

3,252.03

## Account Summary

Description	Amount
Previous Balance	6,435.54
Total Credits and Adjustments	0.00
Total Payments Received	3,187.69
Total Current Charges	4.18
<b>Total Amount Due</b>	<b>3,252.03</b>
<b>Total Amount Past Due</b>	<b>278.79</b>

Service Period: JAN 2010

Description	Amount
Bill-Off	4.18
<b>Total Current Charges</b>	<b>4.18</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. If a check is returned, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Please pay total amount due. Thank you for your business.

Waste Management's COO Larry O Donnell goes "undercover" on the new CBS reality TV show "Undercover Boss." Feb. 7 after the Super Bowl. [www.wm.com/facebook](http://www.wm.com/facebook).

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
2,973.24	278.79	0.00	0.00	0.00	3,252.03



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Page 3 of 3  
Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 01/16/2010  
Invoice Number: 1567149-2448-7  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Late payment fee				4.18
		Total Current Charges				4.18

Payments Received Detail

		Payment - thank you				3,187.69-
		Total Payments Received				3,187.69-





# INVOICE

Page 1 of 3

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
P, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 02/01/2010  
Invoice Number: 1571050-2448-1  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount Total Amount Due

150.00

432.97

## Account Summary

Description	Amount
Previous Balance	3,252.03
Total Credits and Adjustments	0.00
Total Payments Received	2,969.06
Total Current Charges	150.00
<b>Total Amount Due</b>	<b>432.97</b>
<b>Total Amount Past Due</b>	<b>282.97</b>

Service Period: JAN 2010

Description	Amount
Roll-Off	150.00
<b>Total Current Charges</b>	<b>150.00</b>

Failure to pay this balance could necessitate further collection action. Please process your payment in full today.

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Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
150.00	4.18	278.79	0.00	0.00	432.97



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Learn how we Think Green at  
[www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number

449-0039838-2448-7

Invoice Date

02/01/2010

Your Invoice Number

1571050-2448-1

Due Date

Total Due

Amount Paid

Upon Receipt

432.97

Waste Management introduces WM ezPay! Pay your WM bill on-line at [www.wm.com](http://www.wm.com).

To pay your invoice by phone, call  
866-WMI-2PAY or  
866-964-2729.

24484490039838015710500000001500000000043297 7

0001430 01 AT 0.357 \*\*AUTO T8 2 2533 19061

CP1 I2392032



SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 19061-5104

WASTE MANAGEMENT OF PA INC  
WASTE MANAGEMENT-SOUTH  
PO BOX 13648  
Philadelphia PA 19101-3648

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Think Green. Think Waste Management.

FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES



000161082562005



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 02/01/2010  
Invoice Number: 1571050-2448-1  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

**Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104**

Date	Ticket	Description	Quantity	U/M	Rate	Amount
01/30/10	M33315	Inactivity charge Min:01/01-01/30/10	1.00			150.00
<b>Total Current Charges</b>						<b>150.00</b>

**Payments Received Detail**

Payment - thank you	2,969.06-
<b>Total Payments Received</b>	<b>2,969.06-</b>





# INVOICE

Page 1 of 3

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 02/16/2010  
Invoice Number: 1572764-2448-6  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Current Invoice Amount	Total Amount Due
1.45	434.42

## Account Summary

Description	Amount
Previous Balance	432.97
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	1.45
<b>Total Amount Due</b>	<b>434.42</b>
<b>Total Amount Past Due</b>	<b>282.97</b>

## Service Period: FEB 2010

Description	Amount
Roll-Off	1.45
<b>Total Current Charges</b>	<b>1.45</b>

Failure to pay this balance could necessitate further collection action. Please process your payment in full today.



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Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
151.45	4.18	278.79	0.00	0.00	434.42



Waste Management of Pennsylvania, Inc.  
400 Oak Ave  
Pittsburgh, PA 15018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 02/16/2010  
Invoice Number: 1572764-2448-6  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Late payment fee				1.45
		Total Current Charges				1.45



# INVOICE

Page 1 of 3

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 03/01/2010  
Invoice Number: 1576676-2448-8  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount	Total Amount Due
2.73	437.15

## Account Summary

Description	Amount
Previous Balance	434.42
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	2.73
<b>Total Amount Due</b>	<b>437.15</b>
<b>Total Amount Past Due</b>	<b>434.42</b>

Service Period: FEB 2010

Failure to pay this balance could necessitate further collection action. Please process your payment in full today.



SAFETY IS OUR PRIORITY! IF WE'RE SAFE, YOU'RE SAFE!

Description	Amount
Roll-Off	2.73
<b>Total Current Charges</b>	<b>2.73</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
2.73	151.45	4.18	278.79	0.00	437.15



INVOICE

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsboro, PA 19018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 03/16/2010  
Invoice Number: 1579839-2448-9  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Current Invoice Amount	Total Amount Due
3.70	440.85

Account Summary

Description	Amount
Previous Balance	437.15
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	3.70
<b>Total Amount Due</b>	<b>440.85</b>
<b>Total Amount Past Due</b>	<b>434.42</b>

Service Period: MAR 2010

Description	Amount
Roll-Off	3.70
<b>Total Current Charges</b>	<b>3.70</b>

Failure to pay this balance could necessitate further collection action. Please process your payment in full today.

SAFETY IS OUR PRIORITY! IF WE'RE SAFE, YOU'RE SAFE!

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
6.43	151.45	4.18	278.79	0.00	440.85



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 03/16/2010  
Invoice Number: 1579839-2448-9  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
		Late payment fee				3.70
		Total Current Charges				3.70





# INVOICE

Page 1 of 3

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 04/01/2010  
Invoice Number: 1583794-2448-0  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

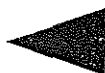
Current Invoice Amount	Total Amount Due
305.73	300.49

## Account Summary

Description	Amount
Previous Balance	440.85
Total Credits and Adjustments	446.09-
Total Payments Received	0.00
Total Current Charges	305.73
<b>Total Amount Due</b>	<b>300.49</b>
Total Amount Past Due	0.00

Service Period: MAR 2010

Please pay total amount due. Thank you for your business.



Description	Amount
Roll-Off	305.73
<b>Total Current Charges</b>	<b>305.73</b>

SAFETY IS OUR PRIORITY! IF WE'RE SAFE, YOU'RE SAFE!

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
300.49	0.00	0.00	0.00	0.00	300.49



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Primos, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Learn how we Think Green at  
[www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number

449-0039838-2448-7

Invoice Date

04/01/2010

Your Invoice Number

1583794-2448-0

Due Date

Upon Receipt

Total Due

300.49

Amount Paid

Waste Management introduces WM ezPay!! Pay your WM bill on-line at [www.wm.com](http://www.wm.com).

To pay your invoice by phone, call 866-WMI-2PAY or 866-964-2729.

24484490039838015837940000003057300000030049 2

000002 AT 0.482 \*\*AUTO T9 0 2592 19061 13 CP1 I2392038

SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 19061-5104

WASTE MANAGEMENT OF PA INC  
WASTE MANAGEMENT-SOUTH  
PO BOX 13648  
Philadelphia PA 19101-3648

From everyday collection to environmental protection,  
Think Green®. Think Waste Management.  
FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT NUMBER ON BACK

Printed on  
recycled paper.

000161082562005



Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 04/01/2010  
Invoice Number: 1583794-2448-0  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Waste Management of Pennsylvania, Inc.  
408 Oak Ave  
Pitt PA 19018

**Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104**

Date	Ticket	Description	Quantity	U/M	Rate	Amount
03/31/10	M34525	Inactivity charge Min:01/31-03/01/10	1.00			150.00
03/31/10	M34526	Inactivity charge Min:03/02-03/31/10	1.00			150.00
04/01/10		1.00 Administrative fee	1.00			3.00
		Late payment fee				2.73
<b>Total Current Charges</b>						<b>305.73</b>

**Credits and Adjustments Detail**

03/31/2010	Reverse late payment fee	3.70-
03/31/2010	Reverse late payment fee	2.73-
03/31/2010	Reverse late payment fee	1.45-
03/31/2010	Credit r/o	150.00-
03/31/2010	Reverse late payment fee	4.18-
03/31/2010	Credit fuel r/o	132.23-
03/31/2010	Credit fuel r/o	151.80-
<b>Total Credits and Adjustments</b>		<b>446.09-</b>





WASTE MANAGEMENT-PHILADELPHIA  
408 SOUTH OAK AVENUE  
PRIMOS, PA 19018  
(610) 626-7500  
(610) 622-0767 FAX

Order: 308528 Driver: WARNER BROOKS  
by: SBAUMAN  
Customer: 449-39838 SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 19061-5104

Date Requested: 04/21/2010  
Date Dispatched: 04/22/2010

610-497-4069

Requested by: NICK BARAVELAS  
CHRIS 610-497-4069

Load Type: ~~SWITCH BOX~~

Map Code: Map Grid:

Service	Quantity	P	Yds	Type	Weight	Job	Special Description
YD SPECIAL WASTE	1.00	P	20	SAND			ADD LINER 30.00
SPDIAL PER TON	1.00	P					

OFFICE NUMBER FOR SAND 160467RAE  
DO NOT GO THE SAME DAY CALLED LANDFILL LOAD

Signature:

Date:

WASTE MANAGEMENT EASTERN PA MARKET AREA  
444 Oxford Valley Road  
Langhorne, PA 19047

Document Refer No. 08

105490

(800) 963-4776 - Technical Service Center

### NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name: Service Station Company Contact: \_\_\_\_\_  
(Print or Type) (Print or Type)  
Pick-up Address: 700 Pine St (No.) (Street) (City) (State) PA  
Telephone Number: 610-487-4069 SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PADEP regulations.  
Tons: 14.15 Cubic Yards: 2.0 Other (Specify): \_\_\_\_\_  
Name of Waste: SAND  
Special Handling Instructions, if any: \_\_\_\_\_

#### PROFILE/ WASTE STREAM I.D. NUMBER:

100467PA

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 4-22-10

Signature: \_\_\_\_\_

(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. \_\_\_\_\_  
COMPANY NAME: W.M.D. U.S.  
ADDRESS: 408 South Oak Ave. PA.  
Pick-up Date: 4-22-10 Truck No. 402813 Vehicle Lic. No. Y77-5843

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Print name & title of authorized agent: WALTER BLOOM / Driver

Signature of authorized agent: Walter Bloom

3. Disposer of Waste (must be filled-in by disposer)

CIRCLE ONE:

G.R.O.W.S. Landfill 1513 Bordentown Rd. Morrisville, PA 19067 Permit # 100148 (215) 736-0195	<u>Tullytown Resource Recovery Facility (T.R.R.F.) 200 Bordentown Rd. Tullytown, PA 19007 PADEP Permit # 101494 (215) 736-0195</u>	G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Letzburg Rd. Greencastle, PA 17225 PADEP Permit # 101100 (717) 597-5535
Alliance Sanitary Landfill 398 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (570) 562-1600	Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 865-2400	Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (570) 345-2777	

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on

4/22/10 (DISPOSAL DATE)

Waste Discrepancies: \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_



WASTE MANAGEMENT-PHILADELPHIA  
408 SOUTH OAK AVENUE  
PRIMOS, PA 19018  
(610) 626-7500  
(610) 622-0767 FAX

Ref: 806269 Driver: WARNER BROOKS  
yr DEFF  
Contract: 449-39838 SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 17061-5104

Date Requested: 04/26/2010  
Date Dispatched: 04/27/2010

610-497-4069

by: NICK BARAVELAS

tested by: CHRIS

ed Type: ~~SWITCH OUT~~

Map Code: Map Grid:

Waste	Quantity	P	Yds	Type	Weight	Job	Special Description
YD SPECIAL WASTE	1.00	P	20	SAND			ADD LINER 30.00
POSAL PER TON	1.00	P					

FILE NUMBER FOR SAND 100467FAE \*\*\*\*\*  
NOT GO THE SAME DAY CALLED LANDFILL LOAD \*\*\*\*\*

atures: Pete Date: \_\_\_\_\_

WASTE MANAGEMENT EASTERN PA MARKET AREA  
444 Oxford Valley Road  
Langhorne, PA 19047  
(800) 963-4776 - Technical Service Center

Document Refer No. 09

95500

### NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name: Service Printing Company Contact: \_\_\_\_\_  
Pick-up Address: 200 Price (No.) Price (Street) Thames (City) PA (State)  
Telephone Number: 610-497-9069 SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PADEP regulations.  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste: SAND  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/ WASTE STREAM I.D. NUMBER: 100461

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 4-17-10

Signature: [Signature]  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. \_\_\_\_\_  
COMPANY NAME: W.M.D.U.S.  
ADDRESS: 408 South Oak Ave. Pottsville PA.  
Pick-up Date: 4-27-10 Truck No. 402513 Vehicle Lic. No. YTT-5843

The above described waste was picked up and hauled by me to the disposal facility named below and Was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Print name & title of authorized agent: Warner Brooks / Driver  
Signature of authorized agent: [Signature]

3. Disposer of Waste (must be filled-in by disposer)

CIRCLE ONE:

<u>11</u> G.R.O.W.S. Landfill 1513 Bordentown Rd. Morrisville, PA 19067 Permit # 100148 (215) 736-0195	Tullytown Resource Recovery Facility (T.R.R.F) 200 Bordentown Rd. Tullytown, PA 19007 PADEP Permit # 101494 (215) 736-0195	G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Letzburg Rd. Greencastle, PA 17225 PADEP Permit # 101100 (717) 597-5535
Alliance Sanitary Landfill 398 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (570) 562-1600	Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 863-2400	Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (570) 345-2777	

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on

\_\_\_\_\_  
(DISPOSAL DATE)

Waste Discrepancies: \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_

GENERATOR

WASTE MANAGEMENT OF PENNSYLVANIA, INC.  
1121 Bordentown Road  
Morrisville, PA 19067

Document Refer No. 03

(215) 736-9400  
(215) 736-0195 Laboratory

NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name (Print or Type) Servco Painting, Inc.  
Pick-up Address 2000 Ponce de Leon Ave. Atlanta GA  
(No.) (Street) (City) State  
Telephone Number: 404 492 4016 SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste Paint  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/WASTE STREAM I.D. NUMBER: 1004117

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 5/3/10

Signature: \_\_\_\_\_

(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. PAD 049642374  
COMPANY NAME: Waste Management of Philadelphia Hauling - South  
ADDRESS: 408 S. Oak Ave., Primos PA 19018  
Pick-up Date: 5/3/10 Truck No. 400776 Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Signature of authorized agent and title: Pat Verbeke

3. Disposer of Waste (must be filled in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.

T.R.R.F.

AMERICAN REF-FUEL

1513 Bordentown Road

200 Bordentown Road

10 Highland Avenue

Morrisville, PA 19067

Tullytown, PA 19007

Chester, PA 19013

Permit # 100148

Permit # 101494

Permit # 400593

Waste subject to this manifest was delivered by the above hauler to this disposal

facility and accepted on \_\_\_\_\_ (DISPOSAL DATE)

Signature of authorized agent and title: \_\_\_\_\_

WASTE MANAGEMENT OF PENNSYLVANIA, INC.  
1121 Bordentown Road  
Morrisville, PA 19067

(215) 736-9400  
(215) 736-0195 Laboratory

NON-HAZARDOUS WASTE

1. Generator of Waste (must be filled in by producer)

Company Name: (Print or Type) Service

Pick-up Address 200 Prince St  
(No.) (Street)

Telephone Number: \_\_\_\_\_

Waste Stream Identification: This manifest represents

Tons: \_\_\_\_\_ Cubic Yards: 21

Name of Waste Solid

Special Handling Instructions, if any: \_\_\_\_\_

**PROFILE/WASTE STREAM I.D. NUMBER:**

This is to certify that the above named materials are properly packaged, marked, and labeled and are in proper condition for transport to applicable state and federal law. The waste is named. I certify that the foregoing is true and correct.

Date: 5/11/10

2. Hauler of Waste (must be filled in by hauler)

COMPANY NAME: Waste Management

ADDRESS: 408 S Oak Ave

Pick-up Date: 5/11/10 Truck No. \_\_\_\_\_

The above described waste was picked up by the hauler named below and was accepted. I certify that this is true and correct.

Signature of authorized agent and title: \_\_\_\_\_

3. Disposer of Waste (must be filled in by disposer)

G.R.O.W.S., Inc.  
1513 Bordentown Road  
Morrisville, PA 19067  
Permit # 100148

T.R.R.F.  
200 Bordentown Road  
Tullytown, PA 19086  
Permit # \_\_\_\_\_

Waste subject to this manifest was delivered to the disposal facility and accepted on \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_



# INVOICE

Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsboro, PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 07/16/2010  
Invoice Number: 1604054-2448-4  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Page 1 of 1

Current Invoice Amount      Total Amount Due

39.32

174.56

## Account Summary

Description	Amount
Previous Balance	5,478.56
Total Credits and Adjustments	60.00-
Total Payments Received	5,283.32-
Total Current Charges	39.32
<b>Total Amount Due</b>	<b>174.56</b>
Total Amount Past Due	0.00

Service Period: JUL 2010

Description	Amount
Roll-Off	39.32
<b>Total Current Charges</b>	<b>39.32</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

Please pay total amount due. Thank you for your business.

SAFETY IS OUR PRIORITY! IF WE'RE SAFE, YOU'RE SAFE!

The new Bagster® Dumpster In a Bag® can take on up to 3300 lb of waste & debris. As easy as Buy. Fill. Gone®. Buy at a retailer near you. [www.thebagster.com](http://www.thebagster.com)

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
174.56	0.00	0.00	0.00	0.00	174.56



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
P, PA 19018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 07/16/2010  
Invoice Number: 1604054-2448-4  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

**Service Location: 449-39838 Service Painting Inc; 200 Price St; Trainer Pa 19061-5104**

Date	Ticket	Description	Quantity	U/M	Rate	Amount
07/16/10		1.00 Administrative fee	1.00			3.00
		Late payment fee				36.32
<b>Total Current Charges</b>						<b>39.32</b>

**Credits and Adjustments Detail**

07/07/2010 Credit r/o						60.00-
<b>Total Credits and Adjustments</b>						<b>60.00-</b>

**Payments Received Detail**

Payment - thank you						5,283.32-
<b>Total Payments Received</b>						<b>5,283.32-</b>





## ENVIRONMENTAL SERVICES

### Fax Coversheet

TO: Deb  
COMPANY: Service Painting  
FAX NUMBER: 610-497-0723  
FROM: Paul Keller

DATE: June 24, 2005

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND  
MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL.

If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are notified that any dissemination or distribution of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us by mail. Thank You.

Number of Total Pages Including Cover: 3

#### Special Comments / Instructions:

Deb,

The invoice for the previous shipment was sent out today. This is a new quote based on the new information.

Any questions, please call me at 215-289-3700.

Thanks,

Paul



Friday, June 24, 2006

SERVICE PAINTING, INC.

200 PRICE ST.

PA BOX 433

MARCUSHOOK, PA 19061

(610) 497-4700

Dear DEB:

ONYX Environmental Services is pleased to submit an Itemized estimate for the proper packaging, transportation and disposal of the hazardous materials located at your facility.

Based upon our understanding of the scope of work as presented by SERVICE PAINTING, INC., we propose our attached quotation for the total dollar amount of \$5,489.54.

This estimate observes the following general terms and conditions:

- Energy and Security Fee - 4% of invoice total

This quotation includes the following activities:

- Classification of the materials (DOT Hazard Class).
- Segregation as to compatibility, hazard class and disposal requirements.
- Packaging directly into 55-gallon drums and/or DOT approved fiberboard boxes in accordance with DOT regulations (49 CFR), and over packing, when required.
- Compilation of packing slips, listing materials packed in each container.
- Proper labeling, according to state and federal regulations.
- Completion of associated documentation, manifests and shipping documents.
- Ultimate disposal at a customer approved Licensed Class I-A Secure Chemical Landfill, incinerator or Chemical Treatment Facility.

All work performed will be in strict compliance with all federal, state and local regulations and laws.

SERVICE PAINTING, INC. must also comply with all applicable laws and regulations pertaining to generators of hazardous waste. ONYX will not accept Improperly identified or unidentified materials.

Sincerely,

A handwritten signature in cursive script that reads "Paul Keller".

PAUL KELLER,  
ONYX Account Representative

QUOTATION WORKSHEET

No. Q539C 003

Page 01



<b>MANIFEST FROM:</b> <b>SERVICE PAINTING, INC.</b> <b>200 PRICE ST.</b> <b>PA BOX 433</b> <b>MARCUS HOOK, PA 19061</b>		<b>RETURN MANIFEST TO:</b> <b>*** Same Address ***</b>	<b>CERTIFICATE TO:</b> <b>*** Same Address ***</b>
<b>CONTACT: DEB KENNARD</b>	<b>QUOTE DATE: 06/24/2005</b>	<b>TERRITORY: P55</b>	
<b>PHONE: (610) 497-4700</b>	<b>FAX: (610) 497-0723</b>	<b>SALES REP: PAUL KELLER</b>	

Line	Service	Description	Quantity	Price	Unit	Extension
	<b>Waste Stream:</b>	NON-HAZARDOUS PAINTING DEBRIS	2.00	120.00	EA	\$240.00
	Technology:	Landfill or surface impoundmnt				
	Facility:	CWM CHEMICAL SERVICES, L.L.C				
	UOM/Container:	CUBIC YARD BOX				
	<b>Freight:</b>		1.00	1250.00	TRAILR	\$1250.00
					<b>Line Total</b>	<b>\$1490.00</b>
	<b>Waste Stream:</b>	FLAMMABLE DEPACK	2.00	535.00	EA	\$1070.00
	Technology:	Fuel blend prior to eng.recover				
	Facility:	ONYX ENVIRONMENTAL SVCS,L.L.C.				
	UOM/Container:	CUBIC YARD BOX				
	<b>Freight:</b>		2.00	77.27	CU YD	\$154.54
					<b>Line Total</b>	<b>\$1224.54</b>
	<b>Materials:</b>	CYD11G - CUBIC YARD BOX W/LINER	16.00	95.00	EACH	\$1425.00
					<b>Line Total</b>	<b>\$1425.00</b>
	<b>Personnel:</b>	MOBILIZATION FEE	1 at 1.00	150.00	EACH	\$150.00
					<b>Line Total</b>	<b>\$150.00</b>
	<b>Waste Stream:</b>	NON HAZ PAINT SOLIDS	10.00	120.00	EA	\$1200.00
	Technology:	Landfill or surface impoundmnt				
	Facility:	CWM CHEMICAL SERVICES, L.L.C				
	UOM/Container:	CUBIC YARD BOX				
					<b>Line Total</b>	<b>\$1200.00</b>
<b>Quote Terms:</b>						
Energy and Security Fee - 4% of invoice total						
All ONYX Terms and Conditions described in the previous pages will apply.						
					<b>Quote Total</b>	<b>\$5489.54</b>

ONYX ENV SERVICES

Fax:2155336799

Jun 24 2005 11:56

P.03

QUOTATION WORKSHEET

No. Q-9000817

Page 01



MANIFEST FROM:  
**SERVICE PAINTING, INC.**  
 200 PRICE ST.  
 PA BOX 433  
 MARCUS HOOK, PA 19061

RETURN MANIFEST TO:  
 \*\*\* Same Address \*\*\*

CERTIFICATE TO:  
 \*\*\* Same Address \*\*\*

CONTACT: **DEB KENNARD**

QUOTE DATE: **06/14/2011**

TERRITORY: **P55**

PHONE: **(610) 497-4700**

FAX: **(610) 497-0723**

SALES REP: **PAUL KELLER**

Line	Service	Description	Quantity	Price	Unit	Extension
	Waste Stream:	NON HAZARDOUS ORGANIC SOLIDS	2.00	110.00	EA	\$220.00
	Technology:	Landfill or surface impoundment				
	Facility:	CHEMICAL WASTE MANAGEMENT INC.				
	UOM/Container:	55 GALLON DRUM				
	Personnel:	MOBILIZATION FEE	1 at 1.00	200.00	EACH	\$200.00
	Freight:		2.00	74.00		\$148.00
	Miscellaneous:	ENERGY & SECURITY SURCHARGE	568.00	0.15	PERCNT	\$85.20
Line Total						\$653.20
Quote Total						\$653.20

All terms and conditions described in the previous pages will apply.

## WASTESTREAM INFORMATION PROFILE

OAKCC2804

Disposal Code

Recertification

Veolia ES Location

PHILADELPHIA-PA-BRANCH

PHILADELPHIA

PA

001 009

Invoice Address

OFFICE

CITY

ST

Veolia ES TSDF requested Technology requested Generator No. 525224 Generator EPA ID No. PADEP0012398

1. Generator Name SERVICE PAINTING, INC.

Generator State No.

Address 200 PRICE ST. PA BOX 433

State Wastestream No.

City MARCUS HOOK

State PA

Country US

ZIP 19061

NAICS(SIC) Code 9999

Source G11

Origin 1

Form W409

System Type

2. Waste Name EPOXY SOLIDS

Lab or Waste Area

3. Process Generating Waste

EXPIRED PRODUCT

4. Shipping Name NON REGULATED MATERIAL

Hazard Class NONE UN/NA No. NONE PG

RQ amt 0 lb Waste: N PIH: N IH: N DWW: N P: N

RQ Des: 1.

2.

DOT Des: 1.

2.

5. Waste Codes ID27 NONE RW440

Wastewater Non Wastewater X Sub Category

Mix: N Sol: N

6. Physical and chemical properties:

pH Specific Gravity

a &lt; 2

a &lt; .8

Flash Point(F)

a &lt; 80

Solids

0 - 0% suspended

0 - 0% ash

b 2 - 5

b .8 - 1.0

b 80 - 100

100 - 100% settleable

0 - 0% water solubili

c 6 - 9

c 1.0

c 100 - 140

0 - 0% dissolved

0 - 0 BTU/lb

d 9 - 12.5

d X 1.0 - 1.2

d 140 - 200

e &gt; 12.5

e &gt; 1.2

e &gt; 200

Free Liquid 0 - 0 %

exact

exact

f X no flash exact

VOC 0 - 0 %

Physical State

Hazardous Characteristics

Odor

X solid

a air reactive

r radioactive or NRC regulated

a none X

semi-solid

w water reactive

s shock sensitive

b mild

liquid

c cyanide reactive

t temp sensitive

c strong

pumpable semi-solid

f sulfide reactive

m polymerization/monomer

describe

flowable powder

e explosive

n OSHA carcinogen

gas

o oxidizing acid

i infectious

Halogens

aerosol

p peroxide former

h inhalation hazard

Br .0 - .0 % Bromine

pressurized liquid

Zone:

Cl .0 - .0 % Chlorine

debris per 40 CFR 268.45

F .0 - .0 % Fluorine

sharps

I .0 - .0 % Iodine

pumpable liquid

cs: a multilayered:

b bi-layered:

c X single phase

	Top Layer	Second Layer	Bottom Layer	Color
osity	high(syrup)	high(syrup)	high(syrup)	VAR
	medium(oil)	medium(oil)	medium(oil)	
ver:	low(water)	low(water)	low(water)	
	X solid	solid	solid	

## WASTESTREAM INFORMATION PROFILE

Used oil y/n N HOC < 1000 ppm      HOC > 1000 ppm     

Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,

U=Underlying Hazardous Constituent, B=Benzene NESHA, T=TRI Chemical, C=OSHA-Carcinogen]

Constituents

Ranges

Units

Constituents	Ranges	Units
EPOXY RESIN SOLID	.00	100.00 %

Other:

8. Is the wastestream being imported into the USA?

Yes      No X

9. Does the wastestream contain PCBs regulated by 40CFR?

Yes      No XPCB Concentration     .00 ppm

10. Is the wastestream subject to the Marine Pollutant Regulations?

Yes      No X

11. Is the wastestream from an industry regulated under Benzene NESHA?

Yes      No X

If yes:

Is the wastestream subject to Notification/Control Requirements?

Yes      No XBenzene Concentration     .00 ppm

Does it contain &gt;= 10% water?

Yes      No X

What is the TAB at your facility?

    .00 Mg/Yr

12. Is the wastestream subject to RCRA subpart CC controls?

Yes      No XVolatile Organic Concentration     .00 ppmw

CC Approved Analytical Method?

Yes      No X

Generator Knowledge?

Yes X No     

13. Is the wastestream from a CERCLA or state mandated cleanup?

Yes      No X

## 14. Container Information :

Packaging: 551A2 Type/Size: DM 55 GAL OPEN HEAD (17H) DMType/Size:     Shipping Frequency: Units 2.00 Per Day      Per Week      Per Month      Per Qtr      Per Year X One Time     UOM DRUMS DESCRIPTION:     

## 15. Additional Information :

## 16. Product Reclaim

Does Generator want material back (TOLL)?

Yes      No     

If Yes, what is the Generator's product specification?

Constituents

Range

Units

APHA Color      Other     Is the waste: grain      or synthetic      Ethanol? SDA Formula No.     Have TTB taxes been paid on the contained ethanol and eligible for rebate?     Transportation Provided By:      Veolia      Generator      Other     Returned in:      Bulk (     T/T      T/C      ISO)      Drums      Other

## WASTESTREAM INFORMATION PROFILE

Describe the application for the solvent:

Additional Information:

## GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Deb Kennard

Name(Print or Type)

610-497-4700 7/12/11

Phone

Date

Deb Kennard

Signature

Office Manager

Title

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

# Activity Report

JOB NO: 1428350000

WQ NO: 1428350030

BILL TO: RO PD10712632

GENERATOR NO 526724

EPA ID: PADEP0312353

BILL TO: SERVICE PAINTING, INC.  
200 PRICE ST  
PO BOX 433  
MARCUS HOOK, PA 19061  
(610) 487-4700

JOB SITE: SERVICE PAINTING, INC.  
200 PRICE ST.  
PA BOX 433  
MARCUS HOOK, PA 19061  
(610) 487-4700

CONTACT: DEB KENNARD

CONTACT: DEB KENNARD

MANIFEST NUMBER(S):

ZZ00305553

CUSTOMER P.O. NUMBER		PROJECT NUMBER		SHIP DATE		TERM.	
				07/12/01		P55	
DESCRIPTION		# CONT.	CONT./CODE	QTY	UOM	PSA/N	WASTE AREA
Manifest #ZZ00305553		2	551A2-DM	900	P	1 / 1	
WIP 215523 / Approval OAKCC2504							
EPOXY SOLIDS							

Total Hours: 0

# of Containers: 2

Total Pounds: 900

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

# Activity Report

JOB NO: 1423880000  
BILL DOC NO: 7010012033  
GENERATOR NO 626224

WO NO: 1423880000  
EPA ID: PADEP0012383

BILL TO: SERVICE PAINTING, INC.  
200 PRICE ST  
PO BOX 433  
MARCUS HOOK, PA 19061  
(810) 497-4700

JOB SITE: SERVICE PAINTING, INC.  
200 PRICE ST.  
PA BOX 433  
MARCUS HOOK, PA 19061  
(810) 497-4700

CONTACT: DEB KENNARD

CONTACT: DEB KENNARD

MANIFEST NUMBER(S):

Non-Disposals

CUSTOMER P.O. NUMBER		PROJECT NUMBER		SHIP DATE		TERM.	
				07/12/2011		F55	
DESCRIPTION		# CONT.	CONT. CODE	QTY	USE	PGALN	WASTE AREA
07/12/2011 Manpwr.- MOBILIZATION FEE			1246	1@1	EACH	/	
07/12/2011 Misc. - ENERGY & SECURITY SURCHARGE			3129	568	PERCNT	/	

Total Hours: 0

Comments:

By:

*Deb Kennard*

Vedlia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



<b>SHIPPING DOCUMENT</b>		1. Generator ID Number <b>PA DEP 0012388</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>877-248-8997</b>	4. Shipping Document Tracking Number <b>ZZ 00306958</b>		
5. Generator's Name and Mailing Address <b>SERVICE PAINTING, INC. 200 PRICE ST. PA BOX 433 MARCUS Hook, PA 19061</b>		6. Generator's Site Address (if different than mailing address) <b>SAME</b>					
6. Transporter 1 Company Name <b>VEOLIA ES TECHNICAL SOLUTIONS</b>		U.S. EPA ID Number <b>W I D 0 8 0 8 3 1 3 8 9</b>					
7. Transporter 2 Company Name <b>SJ Transportation Company Inc.</b>		U.S. EPA ID Number <b>MSB071629976</b>					
8. Designated Facility Name and Site Address <b>VEOLIA ES TECHNICAL SOLUTIONS, L.L.C. 2176 WILL SUITT ROAD CREEDMOOR, NC 27522</b>		U.S. EPA ID Number <b>W C D 0 8 5 1 6 6 3 3 8</b>					
Facility's Phone: <b>919 528-3306</b>							
<b>GENERATOR</b>	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Codes
			No.	Type			
	1.	<b>NON REGULATED MATERIAL</b>	<b>0 0 2</b>	<b>D M</b>	<b>00800</b>	<b>P</b>	<b>NONE</b> <b>RW440</b>
	2.						
	3.						
4.							
14. Special Handling Instructions and Additional Information <b>ER Service Contracted by VESTS - (1) EPOXY SOLIDS</b>							
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offor's Printed/Typed Name <b>Deb Kennard</b>		Signature <i>Deb Kennard</i>		Month <b>17</b>		Day <b>12</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Date leaving U.S.:			
17. Transporter Acknowledgment of Receipt of Shipment							
Transporter 1 Printed/Typed Name <b>DANIEL BARSZCZ</b>		Signature <i>Dan Barszcz</i>		Month <b>17</b>		Day <b>12</b>	
Transporter 2 Printed/Typed Name <b>Jeremy W. Dell Arciprete</b>		Signature <i>Jeremy W. Dell Arciprete</i>		Month <b>17</b>		Day <b>13</b>	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) <span style="float: right;">Shipping Document Tracking Number: <b>ZZ 00306958</b></span>							
Facility's Phone: <span style="float: right;">U.S. EPA ID Number</span>							
18c. Signature of Alternate Facility (or Generator) <span style="float: right;">Month Day Year</span>							
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)							
1. <b>41</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a							
Printed/Typed Name <b>LEONARD BECK</b>		Signature <i>Leonard Beck</i>		Month <b>07</b>		Day <b>20</b>	
<b>DESIGNATED FACILITY TO GENERATOR</b>							

GENERATOR

TRANSPORTER INTL

SHIPPING DOCUMENT		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone		4. Shipping Document Tracking Number <b>ZZ 00306958</b>			
5. Generator's Name and Mailing Address <b>SEAFORD POLYMER INC 200 POLICE ST. SEAFORD, DE 19957</b>						Generator's Site Address (if different than mailing address) <b>SALE</b>					
Generator's Phone: <b>302 438 1000</b>											
6. Transporter 1 Company Name						U.S. EPA ID Number					
7. Transporter 2 Company Name						U.S. EPA ID Number					
8. Designated Facility Name and Site Address <b>VEOLIA ES TECHNICAL SOLUTIONS LLC 3178 WILL SUITE ROAD CREEDMOR, NC 27622</b>						U.S. EPA ID Number					
Facility's Phone: <b>919 438 1000</b>											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Codes				
			No.	Type							
	1.	NON REGULATED MATERIAL	002	DM	00000	P	NONE				
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information <b>ER Service Contracted by VESTS -1- DEPOXY SOLIDS</b>											
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.											
Generator's/Offor's Printed/Typed Name <b>Dan Bernard</b>						Signature <i>Dan Bernard</i>		Month Day Year <b>7/13/11</b>			
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
	17. Transporter Acknowledgment of Receipt of Shipment										
	Transporter 1 Printed/Typed Name <b>DANIEL BARSCZ</b>						Signature <i>Dan Barsz</i>		Month Day Year <b>7/13/11</b>		
	Transporter 2 Printed/Typed Name						Signature		Month Day Year		
ALTERNATE FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
	Shipping Document Tracking Number: _____										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number										
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Consignor) _____ Month Day Year											
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)											
1.		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a											
Printed/Typed Name						Signature		Month Day Year			

WASTE MANAGEMENT EASTERN PA MARKET AREA  
444 Oxford Valley Road  
Langhorne, PA 19047  
(800) 963-4776 - Technical Service Center

Document Refer No. 08 108848

### NON-HAZARDOUS WASTE MANIFEST

1. Generator of Waste (must be filled in by producer) EPA I.D. No. \_\_\_\_\_  
Company Name: SERVICE CENTER Company Contact: \_\_\_\_\_  
Pick-up Address: 200 PHILADELPHIA ST (No.) (Street) TRINER (City) PA (State)  
Telephone Number: 610-497-4069 SIC No. \_\_\_\_\_  
Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PADEP regulations.  
Tons: \_\_\_\_\_ Cubic Yards: 20 Other (Specify): \_\_\_\_\_  
Name of Waste SAND  
Special Handling Instructions, if any: \_\_\_\_\_

PROFILE/ WASTE STREAM I.D. NUMBER: 100467RAD

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11-9-09

Signature: [Signature]  
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No. \_\_\_\_\_

COMPANY NAME: WASTE MANAGEMENT

ADDRESS: 408 S OAK AVE PHILADELPHIA

Pick-up Date: 11-9-09 Truck No. 377 Vehicle Lic. No. \_\_\_\_\_

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Print name & title of authorized agent: [Signature]

Signature of authorized agent: [Signature]

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S. Landfill 1513 Bordentown Rd. Morrisville, PA 19067 Permit # 100148 (215) 736-0195	Tullytown Resource Recovery Facility (T.R.R.F.) 200 Bordentown Rd. Tullytown, PA 19007 PADEP Permit # 101494 (215) 736-0195	G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Letzburg Rd. Greencastle, PA 17225 PADEP Permit # 101100 (717) 597-5535
Alliance Sanitary Landfill 398 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (717) 562-1600	Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 663-2400	Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (317) 545-2111	

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on

(DISPOSAL DATE)

Waste Discrepancies: \_\_\_\_\_

Signature of authorized agent and title: \_\_\_\_\_

GENERATOR



Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pitt PA 19018

(610) 626-7500  
(800) 577-7814 FAX  
(215) 269-1671 FAX

# INVOICE

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 11/01/2009  
Invoice Number: 1552892-2448-9  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Current Invoice Amount	Total Amount Due
82.50	82.50

## Account Summary

Description	Amount
Previous Balance	0.00
Total Credits and Adjustments	0.00
Total Payments Received	0.00
Total Current Charges	82.50
<b>Total Amount Due</b>	<b>82.50</b>
<b>Total Amount Past Due</b>	<b>0.00</b>

Service Period: OCT 2009

Description	Amount
Roll-Off	82.50
<b>Total Current Charges</b>	<b>82.50</b>

If full payment of the invoiced amount is not received within 30 days of the invoice date, you will be charged a monthly late fee of 1.5% of the unpaid amount, with a minimum monthly charge of \$3.00, or such lesser late fee allowed under applicable law, regulation or contract. For each returned check, a fee will be assessed on your next billing equal to the maximum amount permitted by applicable state law.

BLAIR

Want to pay this bill on-line? Go to [www.wm.com](http://www.wm.com) to learn more about WMezPay and make a convenient, secure payment.

Current Due	Over 30	Over 60	Over 90	Over 120	Total Due
82.50	0.00	0.00	0.00	0.00	82.50



Waste Management of Pennsylvania, Inc.  
3 S Oak Ave  
Pittos, PA 19018

(610) 626-7500  
(617) 777-7814 FAX  
(610) 269-1671 FAX

Learn how we think Green at  
[www.wm.com/thinkgreen](http://www.wm.com/thinkgreen)

## Payment Coupon

Please detach and enclose this portion with your payment - do not send cash.

Your Account Number 449-0039838-2448-7	
Invoice Date 11/01/2009	Your Invoice Number 1552892-2448-9
Due Date Upon Receipt	Total Due 82.50
Amount Paid	

Waste Management introduces WM ezPay!! Pay your WM bill on-line at [www.wm.com](http://www.wm.com).

To pay your invoice by phone, call 866-WMI-2PAY or 866-964-2729.

244844900398380155289200000000825000000008250 9

0005487 01 AT 0.357 \*\*AUTO T8 2 2807 19081

CP1 I2392023

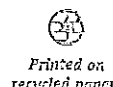


SERVICE PAINTING INC  
200 PRICE ST  
TRAINER PA 19061-5104

WASTE MANAGEMENT OF PA INC  
WASTE MANAGEMENT-SOUTH  
PO BOX 13648  
Philadelphia PA 19101-3648

From everyday collection to environmental protection,  
Think Green. Think Waste Management.

FOR CHANGE OF ADDRESS OR ANY SERVICE ISSUES CONTACT YOUR SERVICE MANAGER



000161082562005







Waste Management of Pennsylvania, Inc.  
408 S Oak Ave  
Pittsburgh, PA 15018

Customer: SERVICE PAINTING INC  
Account Number: 449-0039838-2448-7  
Invoice Date: 11/01/2009  
Invoice Number: 1552892-2448-9  
Due Date: Due Upon Receipt  
WM ezPay Account ID: 00016-10825-62005

Service Location: 449-39838 Service Painting Inc: 200 Price St: Trainer Pa 19061-5104

Date	Ticket	Description	Quantity	U/M	Rate	Amount
10/31/09	221454	Delivery 20 yd open top	1.00			75.00
11/01/09		1.00 Fuel/environmental charge	1.00			7.50
Total Current Charges						82.50

	Filtration Sand
Sand Co., Inc.	Filter Gravel
 2099 Dragston Rd. Port Norris NJ 08349	Well Gravel
 Toll Free in USA: 1-888-807-4224 Tel: (856) 785-0166 Fax: (856) 785-2136	Industrial Sand
 info@riccisand.com	Visual Chart
	Health & Safety

## MATERIAL SAFETY DATA SHEET (MSDS)

Revision 6/24/99 renewed 12/1/2002.

[MSDS Espanol](#)

[MSDS Français](#)

Identity: Crystalline Silica CAS #14808-60-7

### MANUFACTURER IDENTIFICATION

Ricci Bros Sand Co., Inc

2099 Dragston Rd. P.O. Box 664 Port Norris NJ USA 08349

856-785-0166 or 856-785-2136 fax

### HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

**Chemical Components:** Silica, Crystalline Quartz (respirable). **Specific Chemical Identity:** Silicon Dioxide, SiO<sub>2</sub>.

**Composition:** SiO<sub>2</sub>: 95% minimum Balance: Fe<sub>2</sub>O<sub>3</sub>, CaO, Na<sub>2</sub>O, MgO Al<sub>2</sub>O<sub>3</sub>, K<sub>2</sub>O, TiO<sub>2</sub>. **Common Identity:** Silica Sand, Crystalline Silica, Sandblast Sand, Filter Sand, Filter Gravel or trade name (\*\*See page two for more trade names).

**Permissible Exposure Limits:** Exposure to airborne crystalline silica shall not exceed an 8 hour time weighted average (TWA) limit as stated in 29CFR1910.1000 (refer to reference 1). **Threshold Limit Values (TLVs)** for exposure to crystalline silica: **Crystalline silica TLV:** 10/(%crystalline silica +2) mg/m<sup>3</sup>. **Total silica TLV:** 30/(%crystalline silica +2) mg/m<sup>3</sup>. **ACGIH TLV:** 0.10mg/m<sup>3</sup> for 8 hr time weighted average for 100% crystalline silica (see reference 2). **NIOSH TLV:** 0.05 mg/m<sup>3</sup> for 10 hr shift, 40 hr. week for 100% crystalline silica (see reference 3).

### PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** 4046F. **Specific Gravity:** 2.65. **Melting Point:** 3050F. **Vapor Pressure:** none. **Evaporation Rate (Butyl Acetate=1):** none. **Vapor Density (Air=1):** none. **Solubility in water:** insoluble. **Appearance and Odor:** white, grey or tan, no odor or taste.

### FIRE, EXPLOSION AND REACTIVITY DATA

**Flash Point:** non-flammable. **Flammable Limits:** none. **LEL:** none. **UEL:** none. **Extinguishing Media:** none required.

**Special Firefighting Procedures:** N/A. **Unusual Fire and Explosion Hazards:** N/A **Stability:** stable. **Conditions to avoid:** none. **Incompatibility (materials to avoid):** Contact with agents such as molten magnesium, fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, or hydrofluoric acid may cause fires or corrosive gases. **Hazardous Polymerization:**

will not occur.

## HEALTH HAZARD DATA

**Routes of Entry:** Inhalation? Yes. Skin? No. Ingestion? No. **Acute and Chronic Health Hazards:** *Prolonged exposure to crystalline silica by inhalation may cause silicosis, a fibrosis (scarring) of the lungs which can be progressive and may lead to death. Silica as Related to Carcinogenicity:* Crystalline silica (quartz) inhaled from occupational sources is classified by the International Agency for Research on Cancer (IARC) as class I: carcinogenic to humans (see reference 4); **Signs and Symptoms of Exposure:** Shortness of breath, reduced pulmonary function, coughing, wheezing, and possible chest illness. **Medical Conditions Generally Aggravated by Exposure:** Bronchitis, Emphysema and Asthma. Smoking is known to aggravate the effects of exposure. *Persons with silicosis may develop tuberculosis (reference 5). Exposure to crystalline silica may also result in scleroderma and/or kidney disease (reference 5).* **Emergency First Aid Procedures:** For sand in eyes, immediately flush with water. For gross inhalation, remove person to fresh air and seek medical attention accordingly.

## CONTROL MEASURES

**Workplace Dust Surveys:** Test the employee personal breathing zone for crystalline silica using dust sampling equipment and real time dust monitoring equipment (refer to reference 9). **Respiratory Protection:** Use NIOSH/MSHA approved (ANSI Z88.2 Part 11) particulate respirators with this product. Put in place a respiratory protection and monitoring program which meets the requirements of 29CFR 1910.134: "Respiratory Protection". (Refer to references 6 and 7). *Select respiratory based on the results of the workplace dust surveys. Use respirators that protect against the highest concentrations of crystalline silica if the actual concentration is unknown. Choose respiratory protection that meets the requirements of the table below (refer to references 3 and 9):*

### Concentration of Crystalline Silica in Multiples of

Standard	Recommended Respirator Type
<=5X	Single use (valveless dust respirator)
<=10X	Quarter or half-mask respirator with replaceable dust filter or single use (with valve) dust respirator OR type C, demand type (negative pressure), with quarter or half mask facepiece
<=100X	Full facepiece respirator with replaceable dust filter OR Type C, demand type (negative pressure), with fullfacepiece
<=200X	Powered air purifying (positive pressure) respirator with replaceable applicable filter or with 99.7% efficient HEPA-type filter
200X	Type C, supplied air respirator, continuous flow type with full facepiece, hood or helmet

**Engineering and Administrative Controls** Use designed ventilation systems as the primary method to remove crystalline silica from workplace air. Use administrative controls such as job rotation and water spray to supplement engineering controls and respiratory protection. If sandblasting use a respirator approved by NIOSH for abrasive blasting operations. Enclose the operation in a properly designed and maintained blasting enclosure (see reference 8). **Other Protective Clothing or Equipment:** Use gloves, protective clothing and ANSI-approved eye protection with this product. **Medical Surveillance:** Make bi-annual annual medical evaluations available to all workers whom may be exposed to crystalline silica. Include in the evaluations the employee medical history, chest X-Ray, pulmonary functions and review by a physician (see reference 3).

## PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps to be Taken in Case Material is Released or Spilled:** Use dustless method (water or wet HEPA-type vacuum) if not contaminated. Use water sprays and shovels to clean up spills. Do not dry sweep this product with brooms. *Do NOT use compressed air to clean up product.* If contaminated use recommended method for contaminate. **Waste Disposal Method:** Dispose in accordance with federal, state and local regulations. **Work/Hygenic Practices:** Avoid creating and breathing dust. Warn and train your employees and customers of the hazards of this product in accordance with applicable "Right to Know"

practices. Do not smoke if working with silica products. Refer to the guidelines in references 11, 12 and 13 while working with crystalline silica.

#### OSHA HAZARD COMMUNICATION

This product falls under the OSHA Hazard Communication Standard 29CFR1910.1200 (see reference 10). Refer to "Hazard Communication Labeling and Warning" document: <http://www.riccisand.com/pages/hazlabel.html>.

#### REFERENCES

1. Code of Federal Regulations 29CFR1910.1000: "Air Contaminants," Occupational Safety and Health Administration (OSHA), Washington, DC, <http://www.osha.gov>.
2. Threshold Limit Values and Exposure Indices for Chemical Substances in Workroom Air," American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH 1988, <http://www.acgih.org>.
3. National Technical Information Service, Springfield VA (703/487-4650): Criteria for a Recommended Standard - Occupational Exposure to Crystalline Silica, HEW Publication No. (NIOSH) 75-120, NTIS Acquisition No. PB 246-697, <http://www.ntis.gov>.
4. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans-Silica and Some Silicates, Coal Dust and Para-Aramid Fibrils, Vol. 68, 1997. World Health Organization, International Agency for Research on Cancer (IARC), Lyon, France, 1997, <http://www.iarc.fr>.
5. Crystalline Silica Health Effects. National Industrial Sand Association (NISA), Calverton, MD, 1997. <http://www.riccisand.com/pages/health1.html>.
6. Code of Federal Regulations, 29CFR Part 1910.134: "Respiratory Protection," Occupational Safety and Health Administration (OSHA), Washington, DC 1993. <http://www.osha.gov>.
7. "American National Standards Institute (ANSI) Practices for Respiratory Protection," ANSI Z88.2-1992, ANSI, New York, <http://www.ansi.org>.
8. "Air Quality: Health Standards for Abrasive Blasting...Final Rule," Federal Register 59.34, 2/18/94.
9. ASTM E1132-89 (Reapproved 1993): "Standard Practice for Health Requirements Relating to Occupational Exposure to Quartz Dust," American Society for Testing and Materials (ASTM), Phila, PA, <http://www.astm.org>.
10. Occupational Safety and Health Administration (OSHA) Regulations (Standards - 29 CFR) - 1910.1200 - Hazard Communication, [http://www.osha.gov/pls/oshweb/owasrch.search\\_form?p\\_doc\\_type=STANDARDS&p\\_toc\\_level=0](http://www.osha.gov/pls/oshweb/owasrch.search_form?p_doc_type=STANDARDS&p_toc_level=0).
11. National Institute for Occupational Safety and Health (NIOSH), "A Guide to Working Safely with Silica," 1997. <http://www.cdc.gov/niosh/otherpub.html>.
12. NIOSH Publications (1992-1996). <http://www.cdc.gov/niosh/consilic.html>. Preventing Silicosis and Deaths in Construction Workers--DHHS (NIOSH) Publication No. 96-112. <http://www.cdc.gov/niosh/92-107.html>. Preventing Silicosis and Deaths from Rock Drilling--DHHS (NIOSH) Publication No. 92-107. <http://www.cdc.gov/niosh/92-102.html>. Preventing Silicosis and Deaths from Sandblasting--DHHS (NIOSH) Publication No. 92-102.
13. NIOSH Respirator User's Notice: Attention: All Users of Type CE, Abrasive-Blast Supplied-Air Respirators, National Institute for Occupational Safety and Health (NIOSH), May 23, 1996. <http://www.cdc.gov/niosh/abrasi-1.html>.

**NOTICE**

THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BELIEVED TO BE CORRECT. RICCI BROS SAND COMPANY, INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. CUSTOMERS AND USERS OF THESE SILICA PRODUCTS MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, LOCAL REGULATIONS, AND MUST SEEK MEDICAL, LEGAL AND TECHNICAL OPINIONS REGARDING THEIR USE AND THEIR HAZARDS.

\*\*TRADE NAME LISTING OF SILICON DIOXIDE AS PRODUCED BY RICCI BROS. SAND CO., INC. OTHER TRADE NAMES MAY APPLY.

Industrial Sands: OOO, OO, OON, O, 1, 2, 3, 1Q, 2Q, 3Q, 4Q, 10 grit-50 grit. Filter Media: 0.10-3.0 mm. Foundry Sand: AFS 30 thru 100, cement lining sand, P30, P40, etc. Well Gravel: OO thru #4. Gravels: Sizes 1.2 -63.0mm. Other Media: C-3, reactor sand, runway traction sand, torpedo sand, pump sand, pool filter sand, play sand, sewage sand, mason sand. Blends: O-1 blend, 20-30 grit, 0.8-2.0mm, etc.

media



**Always Innovative. Always Reliable.**

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Autofax #00095609  
page 1 of 2

Updated: 01/12/10

## MSDS - MARCO GARNET®

### Identity

Marco Garnet

### I. Company Identification

Supplier: Marco  
Address: 3425 East Locust Street  
Davenport, Iowa 52803  
Emergency Phone Number: 800.252.7848  
Product Information: 800.252.7848

### II. Chemical Identity & Ingredients

Marco's washed Indian Garnet is a natural mixture of **ALMANDINE GARNET**, having a chemical composition of  $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$  with Mn and Mg in partial substitution for Fe in the formula, and other minerals. CAS No.: 1302-62-1 (Almandine).

**Hazardous Ingredients:** The following substances are present and regulated by OSHA & ACGIH limits

Substance	WT. %	OSHA/ACGIH Limit in Use*
Nuisance Dust	N/A	15mg/m <sup>3</sup>
Respirable Dust	N/A	5 mg/m <sup>3</sup>
Crystalline Silica	<1.0%	0.10 mg/m <sup>3</sup>

\*If these levels are exceeded, adequate respiratory protection must be employed.

### III. Physical & Chemical Characteristics

Melting Point: 1315°C  
Solubility in Water: Insoluble  
Specific Gravity ( $\text{H}_2\text{O} = 1.0$ ): 4.0-4.1  
Appearance & Odor: Deep red, reddish brown; no odor

### IV. Fire & Explosion Hazard Data

Flash Point (method used): Material is a non-flammable solid  
Flammable Limits: not applicable LEL: N/A UEL: N/A  
Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.  
Special Fire Fighting Procedures: As appropriate to surrounding fire. Fire fighters should be protected from nuisance dust.  
Unusual Fire and Explosion Hazards: None.

### V. Reactivity Data

Stability: ( ) Unstable (x) Stable INERT  
Hazardous Decomposition or Byproducts: None known.  
Hazardous Polymerization: Will not occur.  
Incompatibility (material to avoid): None known.  
Conditions to Avoid: None known. Almandine Garnet is an inert, stable solid needing no special handling in normal use.

### VI. Health Hazard Data

Route(s) of Entry Possible: None  
Health Hazards (acute and chronic due to overexposure):  
Inhalation: Dust may cause irritation of nasal and respiratory tract or coughing.  
Eyes: Dust may cause irritation.  
Ingestion: No known effect, however ingestion not recommended

## MSDS - MARCO GARNET®

### VI. Health Hazard Data (continued)

Carcinogenicity  
Crystalline Silica (quartz)  
Contains less than 0.5%

NTP

IARC Monographs  
No. 42  
N/A

OSHA Regulations  
0.1 mg/m3

**Medical Conditions Generally Aggravated by Exposure:** Chronic bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.

#### Emergency and First Aid Procedures:

Eye Contact: Wash eyes with water to flush out dust particles.

Skin Contact: Wash affected area with soap and water.

Inhalation: Remove from source of dust and obtain other medical assistance.

Ingestion: Obtain medical assistance, if needed

### VII. Precautions for Safe Handling & Use

**Steps to be Taken in Case Material is Released or Spilled:** No special precautions are necessary. Sweep or vacuum material for disposal. Prevent generation of dust during clean up.

**Waste Disposal Methods:** Follow local, state and federal guidelines for disposal of inert solid waste. Material contaminated in use may require special handling.

**Precautions to be Taken in Handling and Storage:** None - Use good housekeeping practices to reduce dust; use approved hand, eye and respiratory protection when handling material.

**Other Precautions:** Use material ONLY for the purposes intended and incorporate methods of dust control to maintain airborne dust within federal or local TLV limits.

### VIII. Control Measures

**Respiratory Protection:** NIOSH/MSHA approved filters and air supplied hoods for blasters.

**Ventilation:** Yes

**Mechanical (general):** Meet dust TLV

**Other:** None

**Local Exhaust:** Use when blast cleaning

**Special:** None

**Protection Gloves:** Leather, or equivalent - in use **Eye Protection:** Safety glasses with side shields

**Other Protective Clothing or Equipment:** Hearing protection when working near blast cleaning operations.

**Work/Hygienic Practices:** Maintain a clean and safe work environment and monitor work practices.

#### **WARNING**

Breathing dust containing silica could cause silicosis, a fatal lung disease. Breathing dust during blasting operations, post-blast cleaning operations, and/or servicing equipment within the blasting area may expose an individual to conditions that could cause asbestosis, lead poisoning and/or other serious or fatal diseases. Harmful dust containing toxic material from abrasives or surfaces being blasted can remain suspended in the air for long periods of time after blasting has ceased. A NIOSH-approved, well-maintained, respirator designed for the specific operation being performed must be used by anyone blasting, handling or using the abrasive, and anyone in the area of the dust. Failure to comply with the above warning could result in death or serious injury.

#### **WARNING**

You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to comply with the above warning could result in death or serious injury.

**DISCLAIMER:** The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding accuracy. These conditions or methods of handling, storage use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Customers/users of silica must comply with all applicable health and safety laws, regulations and orders, including the OSHA Hazardous Communication Standard.

# MATERIAL SAFETY DATA SHEET

B65B600  
05 00

DATE OF PREPARATION  
Jan 9, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B65B600

**PRODUCT NAME**

ACROLON® 218 HS Polyurethane - Gloss (Part A), Black

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.7	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
4	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-94-5	<b>Medium Aromatic Hydrocarbons</b>		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
0.3	91-20-3	<b>Naphthalene</b>		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	
5	78-93-3	<b>Methyl Ethyl Ketone</b>		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
9	123-86-4	<b>n-Butyl Acetate</b>		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
6	108-65-6	<b>1-Methoxy-2-Propanol Acetate</b>		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
33	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
1	1333-86-4	<b>Carbon Black</b>		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

55° F PMCC

### LEL

0.8

### UEL

13.1

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.72 lb/gal	1284 g/l
<b>SPECIFIC GRAVITY</b>	1.29	
<b>BOILING POINT</b>	174 - 415° F	78 - 212° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	40%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.92lb/gal	350g/l	Less Water and Federally Exempt Solvents
2.92lb/gal	350g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable

### CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-94-5</b>	<b>Medium Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>91-20-3</b>	<b>Naphthalene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
<b>123-86-4</b>	<b>n-Butyl Acetate</b>	LC50 RAT LD50 RAT	4HR	2000 ppm 13100 mg/kg
<b>108-65-6</b>	<b>1-Methoxy-2-Propanol Acetate</b>	LC50 RAT LD50 RAT	4HR	Not Available 8500 mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>1333-86-4</b>	<b>Carbon Black</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Naphthalene 100 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG II, (13 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.7	
1330-20-7	Xylene	4	
91-20-3	Naphthalene	0.2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65W611  
09 00

DATE OF PREPARATION  
Jan 9, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B65W611

**PRODUCT NAME**

ACROLON® 218 HS Polyurethane - Gloss (Part A), Extra White/Tint Base

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
<i>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</i>	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.6	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
3	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-94-5	<b>Medium Aromatic Hydrocarbons</b>		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
0.2	91-20-3	<b>Naphthalene</b>		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	
5	78-93-3	<b>Methyl Ethyl Ketone</b>		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
8	123-86-4	<b>n-Butyl Acetate</b>		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
5	108-65-6	<b>1-Methoxy-2-Propanol Acetate</b>		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
15	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
21	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

55° F PMCC

### LEL

0.8

### UEL

13.1

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.34 lb/gal	1358 g/l
<b>SPECIFIC GRAVITY</b>	1.36	
<b>BOILING POINT</b>	174 - 415° F	78 - 212° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	40%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.90lb/gal	348g/l	Less Water and Federally Exempt Solvents
2.90lb/gal	348g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable

### CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

#### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
64742-94-5	Medium Aromatic Hydrocarbons	LC50 RAT LD50 RAT	4HR	Not Available Not Available
91-20-3	Naphthalene	LC50 RAT LD50 RAT	4HR	Not Available Not Available
78-93-3	Methyl Ethyl Ketone	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
123-86-4	n-Butyl Acetate	LC50 RAT LD50 RAT	4HR	2000 ppm 13100 mg/kg
108-65-6	1-Methoxy-2-Propanol Acetate	LC50 RAT LD50 RAT	4HR	Not Available 8500 mg/kg
14808-60-7	Quartz	LC50 RAT LD50 RAT	4HR	Not Available Not Available
13463-67-7	Titanium Dioxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

#### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

#### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Naphthalene 100 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

#### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

#### Canada (TDG)

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

#### IMO

UN1263, PAINT, CLASS 3, PG II, (13 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.5	
1330-20-7	Xylene	3	
91-20-3	Naphthalene	0.2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65T604  
10 00

DATE OF PREPARATION  
Jan 9, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B65T604

**PRODUCT NAME**

ACROLON® 218 HS Polyurethane - Gloss (Part A), Ultradeep/Clear Tint Base

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
<i>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</i>	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.4	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	64742-94-5	<b>Medium Aromatic Hydrocarbons</b>		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
0.2	91-20-3	<b>Naphthalene</b>		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	
4	78-93-3	<b>Methyl Ethyl Ketone</b>		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
10	123-86-4	<b>n-Butyl Acetate</b>		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
6	108-65-6	<b>1-Methoxy-2-Propanol Acetate</b>		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
31	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

55° F PMCC

**LEL**

0.8

**UEL**

13.1

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.64 lb/gal	1275 g/l
<b>SPECIFIC GRAVITY</b>	1.28	
<b>BOILING POINT</b>	174 - 415° F	78 - 212° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	36%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.66lb/gal	319g/l	Less Water and Federally Exempt Solvents
2.66lb/gal	319g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable

### CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
64742-94-5	Medium Aromatic Hydrocarbons	LC50 RAT LD50 RAT	4HR	Not Available Not Available
91-20-3	Naphthalene	LC50 RAT LD50 RAT	4HR	Not Available Not Available
78-93-3	Methyl Ethyl Ketone	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
123-86-4	n-Butyl Acetate	LC50 RAT LD50 RAT	4HR	2000 ppm 13100 mg/kg
108-65-6	1-Methoxy-2-Propanol Acetate	LC50 RAT LD50 RAT	4HR	Not Available 8500 mg/kg
14808-60-7	Quartz	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, 3, PG II, (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG II, (13 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.4	
1330-20-7	Xylene	2	
91-20-3	Naphthalene	0.2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65V600  
05 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B65V600

### PRODUCT NAME

ACROLON 218 HS Acrylic Polyurethane (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.7	822-06-0	Hexamethylene Diisocyanate (max.)		
		ACGIH TLV	0.005 PPM	0.05 mm
		OSHA PEL	Not Available	
100	28182-81-2	Hexamethylene Diisocyanate Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

EYE or SKIN contact with product.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	1
Reactivity	1

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b> > 200° F PMCC	<b>LEL</b> N.A.	<b>UEL</b> N.A.	<b>FLAMMABILITY CLASSIFICATION</b> Not Applicable
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**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IIIB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	9.41 lb/gal	1127 g/l
SPECIFIC GRAVITY	1.13	
BOILING POINT	Not Applicable	
MELTING POINT	Not Available	
VOLATILE VOLUME	0%	
EVAPORATION RATE	N.A.	
VAPOR DENSITY	N.A.	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
0.00lb/gal	0g/l	Less Water and Federally Exempt Solvents
0.00lb/gal	0g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
822-06-0	Hexamethylene Diisocyanate (max.)			
		LC50 RAT	4HR	Not Available
		LD50 RAT		738 mg/kg
28182-81-2	Hexamethylene Diisocyanate Polymer			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

**US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62Y110  
08 00

DATE OF PREPARATION  
Feb 20, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62Y110

### PRODUCT NAME

COPOXY Shop Primer (Part A), Gold

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.2	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
1	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	64742-95-6	<b>Light Aromatic Hydrocarbons</b>		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
1	108-67-8	<b>1,3,5-Trimethylbenzene</b>		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
4	95-63-6	<b>1,2,4-Trimethylbenzene</b>		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
6	71-36-3	<b>1-Butanol</b>		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 PPM (Skin) CEILING	
3	100-51-6	<b>Phenylmethanol</b>		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
2	90-72-2	<b>Tri(dimethylaminomethyl)phenol</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
12	Proprietary	<b>Polyamine</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
10	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
2	14807-96-6	<b>Talc</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
27	7727-43-7	<b>Barium Sulfate</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
12	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, nervous and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
110° F PMCC	0.7	11.2	Combustible, Flash above 99 and below 200° F

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class II

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	14.37 lb/gal	1721 g/l
<b>SPECIFIC GRAVITY</b>	1.73	
<b>BOILING POINT</b>	243 - 405° F	117 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	37%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.72lb/gal	326g/l	Less Water and Federally Exempt Solvents
2.72lb/gal	326g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>108-67-8</b>	<b>1,3,5-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>100-51-6</b>	<b>Phenylmethanol</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
<b>Proprietary</b>	<b>Polyamine</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>7727-43-7</b>	<b>Barium Sulfate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (43 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	
1330-20-7	Xylene	1	
95-63-6	1,2,4-Trimethylbenzene	4	
71-36-3	1-Butanol	6	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62V110  
05 00

DATE OF PREPARATION  
Feb 20, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B62V110

**PRODUCT NAME**

COPOXY Shop Primer (Part B), Hardener

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.4	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
6	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
32	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
35	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
3	14807-96-6	Talc		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	2
<b>Reactivity</b>	0

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

121° F PMCC

**LEL**

0.7

**UEL**

7.9

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are

ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

<b>SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>PRODUCT WEIGHT</b>	12.22 lb/gal	1464 g/l
<b>SPECIFIC GRAVITY</b>	1.47	
<b>BOILING POINT</b>	281 - 360° F	138 - 182° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	23%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.67lb/gal	200g/l	Less Water and Federally Exempt Solvents
1.67lb/gal	200g/l	Emitted VOC

<b>SECTION 10 — STABILITY AND REACTIVITY</b>
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**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

<b>SECTION 11 — TOXICOLOGICAL INFORMATION</b>
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**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
64742-95-6	Light Aromatic Hydrocarbons	LC50 RAT LD50 RAT	4HR	Not Available Not Available
95-63-6	1,2,4-Trimethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available Not Available
110-43-0	Methyl n-Amyl Ketone	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
25068-38-6	Epoxy Polymer	LC50 RAT LD50 RAT	4HR	Not Available Not Available
14808-60-7	Quartz	LC50 RAT LD50 RAT	4HR	Not Available Not Available
14807-96-6	Talc	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (49 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	
95-63-6	1,2,4-Trimethylbenzene	2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62A290  
03 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62A290

### PRODUCT NAME

COR-COTE® HT Tank Lining and Hi-Temp Coating (Part A), Gray

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
9	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
6	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
53	28064-14-4	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
12	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
6	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the nervous and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

87° F PMCC

**LEL**

1.8

**UEL**

10.0

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	11.38 lb/gal	1364 g/l
<b>SPECIFIC GRAVITY</b>	1.37	
<b>BOILING POINT</b>	174 - 405° F	78 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	22%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.74lb/gal	209g/l	Less Water and Federally Exempt Solvents
1.74lb/gal	209g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY**

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-51-6</b>	<b>Phenylmethanol</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
<b>28064-14-4</b>	<b>Epoxy Polymer</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		4000 mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

### Bulk Containers may be Shipped as:

UN1263, PAINT, 3, PG III, (ERG#128)

### Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (31 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62V290  
02 00

DATE OF PREPARATION  
Sep 15, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62V290

### PRODUCT NAME

COR-COTE® HT Tank Lining and Hi-Temp Coating Hardener (Part B)

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
15	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
5	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
78	6864-37-5	Cyclohexanamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the nervous and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
131° F PMCC	1.8	10.0	Combustible, Flash above 99 and below 200° F

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class II

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	7.71 lb/gal	924 g/l
<b>SPECIFIC GRAVITY</b>	0.93	
<b>BOILING POINT</b>	174 - 405° F	78 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	18%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.25lb/gal	150g/l	Less Water and Federally Exempt Solvents
1.25lb/gal	150g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

### CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
78-93-3	Methyl Ethyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
90-72-2	Tri(dimethylaminomethyl)phenol	LC50 RAT	4HR	Not Available
		LD50 RAT		1653 mg/kg
6864-37-5	Cyclohexanamine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

No data available.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65B11  
18 00

DATE OF PREPARATION  
Feb 6, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B65B11

### PRODUCT NAME

COROTHANE® I - COAL TAR Moisture Cure Urethane, Black

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.6	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
4	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
3	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
4	64742-94-5	Medium Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
0.7	91-20-3	Naphthalene		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	
4	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
3	101-68-8	4, 4'-Diphenylmethane Diisocyanate		
		ACGIH TLV	0.005 PPM	
		OSHA PEL	0.02 PPM CEILING	
14	65996-93-2	Refined Coal Tar Pitch		
		ACGIH TLV	0.2 MG/M3	
		OSHA PEL	0.2 MG/M3	
1	4083-64-1	p-Toluenesulfonyl Isocyanate		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
10	9016-87-9	Diphenylmethane Diisocyanate Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
1	Proprietary	Toluene Diisocyanate Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
6	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
23	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
6	7727-43-7	Barium Sulfate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	2

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Discard contaminated clothing and shoes.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

98° F PMCC

#### **LEL**

0.7

#### **UEL**

7.5

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

For spray application, wear a full face positive pressure air supplied respirator, TC19C NIOSH/MSHA approved. For brush application, wear an organic vapor NIOSH/MSHA approved respirator. Follow respirator manufacturer's directions for use.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear Nitrile/NBR gloves.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin. For spray application, wear full body disposable protective clothing.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	12.65 lb/gal	1516 g/l
<b>SPECIFIC GRAVITY</b>	1.52	
<b>BOILING POINT</b>	237 - 415° F	113 - 212° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	35%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.52lb/gal	302g/l	Less Water and Federally Exempt Solvents
2.52lb/gal	302g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Coal Tar Pitch is listed by NTP. Human and animal studies indicate that prolonged overexposure to Coal Tar Pitch can cause cancer of the skin, lung, bladder and gastrointestinal tract. Inhalation of Coal Tar Pitch Volatiles at application temperatures would not be expected as they are vaporized only at very high temperatures.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>64742-94-5</b>	<b>Medium Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>91-20-3</b>	<b>Naphthalene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>108-10-1</b>	<b>Methyl Isobutyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2080 mg/kg
<b>101-68-8</b>	<b>4, 4'-Diphenylmethane Diisocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>65996-93-2</b>	<b>Refined Coal Tar Pitch</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>4083-64-1</b>	<b>p-Toluenesulfonyl Isocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>9016-87-9</b>	<b>Diphenylmethane Diisocyanate Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>Proprietary</b>	<b>Toluene Diisocyanate Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>7727-43-7</b>	<b>Barium Sulfate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Naphthalene 100 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (37 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.6	
1330-20-7	Xylene	4	
95-63-6	1,2,4-Trimethylbenzene	3	
91-20-3	Naphthalene	0.6	
108-10-1	Methyl Isobutyl Ketone	4	
101-68-8	4, 4'-Diphenylmethane Diisocyanate	3	
9016-87-9	Diphenylmethane Diisocyanate Polymer	10	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65W51  
14 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B65W51

### PRODUCT NAME

COROTHANE® I - HS Moisture Cure Urethane, Extra White/Tint Base

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.7	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
4	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-95-6	<b>Light Aromatic Hydrocarbons</b>		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	95-63-6	<b>1,2,4-Trimethylbenzene</b>		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
1	108-10-1	<b>Methyl Isobutyl Ketone</b>		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
7	110-43-0	<b>Methyl n-Amyl Ketone</b>		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
0.1	822-06-0	<b>Hexamethylene Diisocyanate (max.)</b>		
		ACGIH TLV	0.005 PPM	0.05 mm
		OSHA PEL	Not Available	
4	4083-64-1	<b>p-Toluenesulfonyl Isocyanate</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
31	28182-81-2	<b>Hexamethylene Diisocyanate Polymer</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
16	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
19	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	2

## SECTION 4 — FIRST AID MEASURES

- EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.
- INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.
- INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
108° F PMCC	0.7	7.9	Combustible, Flash above 99 and below 200° F

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class II

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	11.30 lb/gal	1353 g/l
<b>SPECIFIC GRAVITY</b>	1.36	
<b>BOILING POINT</b>	237 - 360° F	113 - 182° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	34%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	2.44lb/gal	292g/l
	2.44lb/gal	292g/l
		Less Water and Federally Exempt Solvents
		Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>108-10-1</b>	<b>Methyl Isobutyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2080 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>822-06-0</b>	<b>Hexamethylene Diisocyanate (max.)</b>	LC50 RAT LD50 RAT	4HR	Not Available 738 mg/kg
<b>4083-64-1</b>	<b>p-Toluenesulfonyl Isocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>28182-81-2</b>	<b>Hexamethylene Diisocyanate Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (42 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.6	
1330-20-7	Xylene	4	
95-63-6	1,2,4-Trimethylbenzene	2	
108-10-1	Methyl Isobutyl Ketone	1	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65W50  
14 00

DATE OF PREPARATION  
Jan 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B65W50

### PRODUCT NAME

COROTHANE® I - HS Moisture Cure Urethane, White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1.0	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
5	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	64742-95-6	<b>Light Aromatic Hydrocarbons</b>		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
1	108-67-8	<b>1,3,5-Trimethylbenzene</b>		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
2	95-63-6	<b>1,2,4-Trimethylbenzene</b>		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
8	110-43-0	<b>Methyl n-Amyl Ketone</b>		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
0.1	822-06-0	<b>Hexamethylene Diisocyanate (max.)</b>		
		ACGIH TLV	0.005 PPM	0.05 mm
		OSHA PEL	Not Available	
3	4083-64-1	<b>p-Toluenesulfonyl Isocyanate</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
27	28182-81-2	<b>Hexamethylene Diisocyanate Polymer</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
10	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
4	14464-46-1	<b>Cristobalite</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.05 mg/m3 as Resp. Dust	
25	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	2

## SECTION 4 — FIRST AID MEASURES

- EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.
- INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.
- INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
108° F PMCC	0.7	7.9	Combustible, Flash above 99 and below 200° F

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class II

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.77 lb/gal	1410 g/l
<b>SPECIFIC GRAVITY</b>	1.42	
<b>BOILING POINT</b>	281 - 360° F	138 - 182° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	36%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.57lb/gal	308g/l	Less Water and Federally Exempt Solvents
2.57lb/gal	308g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>108-67-8</b>	<b>1,3,5-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>822-06-0</b>	<b>Hexamethylene Diisocyanate (max.)</b>	LC50 RAT LD50 RAT	4HR	Not Available 738 mg/kg
<b>4083-64-1</b>	<b>p-Toluenesulfonyl Isocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>28182-81-2</b>	<b>Hexamethylene Diisocyanate Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14464-46-1</b>	<b>Cristobalite</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (42 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.9	
1330-20-7	Xylene	5	
95-63-6	1,2,4-Trimethylbenzene	2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65T54  
06 00

DATE OF PREPARATION  
Jan 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B65T54

### PRODUCT NAME

COROTHANE® I - HS Moisture Cure Urethane, Ultradeep Base

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.5	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	108-67-8	1,3,5-Trimethylbenzene		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
3	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
9	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
1	122-51-0	Ethyl Orthoformate		
		ACGIH TLV	Not Available	10 mm
		OSHA PEL	Not Available	
1	123-86-4	n-Butyl Acetate		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
0.2	822-06-0	Hexamethylene Diisocyanate (max.)		
		ACGIH TLV	0.005 PPM	0.05 mm
		OSHA PEL	Not Available	
2	4083-64-1	p-Toluenesulfonyl Isocyanate		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
43	28182-81-2	Hexamethylene Diisocyanate Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
21	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	2

## SECTION 4 — FIRST AID MEASURES

- EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.
- INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.
- INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
108° F PMCC	0.7	7.9	Combustible, Flash above 99 and below 200° F

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class II

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	9.98 lb/gal	1196 g/l
<b>SPECIFIC GRAVITY</b>	1.20	
<b>BOILING POINT</b>	255 - 360° F	123 - 182° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	32%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.30lb/gal	276g/l	Less Water and Federally Exempt Solvents
2.30lb/gal	276g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>108-67-8</b>	<b>1,3,5-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>122-51-0</b>	<b>Ethyl Orthoformate</b>	LC50 RAT LD50 RAT	4HR	Not Available 2920 mg/kg
<b>123-86-4</b>	<b>n-Butyl Acetate</b>	LC50 RAT LD50 RAT	4HR	2000 ppm 13100 mg/kg
<b>822-06-0</b>	<b>Hexamethylene Diisocyanate (max.)</b>	LC50 RAT LD50 RAT	4HR	Not Available 738 mg/kg
<b>4083-64-1</b>	<b>p-Toluenesulfonyl Isocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>28182-81-2</b>	<b>Hexamethylene Diisocyanate Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (42 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.4	
1330-20-7	Xylene	2	
95-63-6	1,2,4-Trimethylbenzene	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B65C10  
07 00

DATE OF PREPARATION  
Jan 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B65C10

### PRODUCT NAME

COROTHANE® I - Preprime, Clear

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.5	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
7	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	98-82-8	Cumene		
		ACGIH TLV	50 PPM	10 mm
		OSHA PEL	50 PPM	
9	108-67-8	1,3,5-Trimethylbenzene		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
13	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
9	101-68-8	4, 4'-Diphenylmethane Diisocyanate		
		ACGIH TLV	0.005 PPM	
		OSHA PEL	0.02 PPM CEILING	
7	26447-40-5	Diphenylmethane Diisocyanate		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
46	9016-87-9	Diphenylmethane Diisocyanate Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.**HMIS Codes**

<b>Health</b>	<b>3*</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>1</b>

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

105° F PMCC

**LEL**

0.7

**UEL**

7.0

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

#### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.57 lb/gal	1027 g/l
SPECIFIC GRAVITY	1.03	
BOILING POINT	281 - 360° F	138 - 182° C
MELTING POINT	Not Available	
VOLATILE VOLUME	37%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.73lb/gal	327g/l	Less Water and Federally Exempt Solvents
2.73lb/gal	327g/l	Emitted VOC

### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

#### HAZARDOUS POLYMERIZATION

Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>98-82-8</b>	<b>Cumene</b>	LC50 RAT LD50 RAT	4HR	Not Available 1400 mg/kg
<b>108-67-8</b>	<b>1,3,5-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>101-68-8</b>	<b>4, 4'-Diphenylmethane Diisocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>26447-40-5</b>	<b>Diphenylmethane Diisocyanate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>9016-87-9</b>	<b>Diphenylmethane Diisocyanate Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (41 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.4	
1330-20-7	Xylene	2	
98-82-8	Cumene	2	
95-63-6	1,2,4-Trimethylbenzene	13	
101-68-8	4, 4'-Diphenylmethane Diisocyanate	9	
9016-87-9	Diphenylmethane Diisocyanate Polymer	46	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B67B235  
02 00

DATE OF PREPARATION  
Dec 1, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B67B235

### PRODUCT NAME

DURA-PLATE® 235 Multi-Purpose Epoxy (Part A), Black

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	71-36-3	1-Butanol		5.5 mm
		ACGIH TLV	20 PPM	
		OSHA PEL	50 ppm (Skin) CEILING	
5	110-43-0	Methyl n-Amyl Ketone		3.855 mm
		ACGIH TLV	50 PPM	
		OSHA PEL	100 PPM	
24	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
4	Proprietary	Phenol blocked TDI Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
32	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
13	12001-26-2	Mica		
		ACGIH TLV	3 mg/m3 as Resp. Dust	
		OSHA PEL	3 mg/m3 as Resp. Dust	
0.4	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

115° F PMCC

**LEL**

1.0

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are

ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.76 lb/gal	1409 g/l
<b>SPECIFIC GRAVITY</b>	1.42	
<b>BOILING POINT</b>	243 - 308° F	117 - 153° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.08lb/gal	250g/l	Less Water and Federally Exempt Solvents
2.08lb/gal	250g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>Proprietary</b>	<b>Phenol blocked TDI Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>12001-26-2</b>	<b>Mica</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>1333-86-4</b>	<b>Carbon Black</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (46 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
71-36-3	1-Butanol	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B67A235  
07 00

DATE OF PREPARATION  
Oct 31, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B67A235

### PRODUCT NAME

DURA-PLATE® 235 Multi-Purpose Epoxy (Part A), Haze Gray

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	
4	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
23	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
4	Proprietary	Phenol blocked TDI Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
27	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
10	12001-26-2	Mica		
		ACGIH TLV	3 mg/m3 as Resp. Dust	
		OSHA PEL	3 mg/m3 as Resp. Dust	
8	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0.2	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

**HMIS Codes**

Health	2*
Flammability	2
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

115° F PMCC

**LEL**

1.0

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	12.00 lb/gal	1438 g/l
<b>SPECIFIC GRAVITY</b>	1.44	
<b>BOILING POINT</b>	243 - 308° F	117 - 153° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	30%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.13lb/gal	255g/l	Less Water and Federally Exempt Solvents
2.13lb/gal	255g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>Proprietary</b>	<b>Phenol blocked TDI Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>12001-26-2</b>	<b>Mica</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>1333-86-4</b>	<b>Carbon Black</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (46 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
71-36-3	1-Butanol	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B67W235  
08 00

DATE OF PREPARATION  
Oct 31, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B67W235

### PRODUCT NAME

DURA-PLATE® 235 Multi-Purpose Epoxy (Part A), Mill White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	
5	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
22	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
3	Proprietary	Phenol blocked TDI Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
11	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
8	12001-26-2	Mica		
		ACGIH TLV	3 mg/m3 as Resp. Dust	
		OSHA PEL	3 mg/m3 as Resp. Dust	
29	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

#### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

#### HMIS Codes

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### SECTION 5 — FIRE FIGHTING MEASURES

#### FLASH POINT

115° F PMCC

#### LEL

1.0

#### UEL

11.2

#### FLAMMABILITY CLASSIFICATION

Combustible, Flash above 99 and below 200° F

#### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### SECTION 7 — HANDLING AND STORAGE

#### STORAGE CATEGORY

DOL Storage Class II

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	12.65 lb/gal	1516 g/l
<b>SPECIFIC GRAVITY</b>	1.52	
<b>BOILING POINT</b>	243 - 308° F	117 - 153° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	30%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.14lb/gal	257g/l	Less Water and Federally Exempt Solvents
2.14lb/gal	257g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>Proprietary</b>	<b>Phenol blocked TDI Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>12001-26-2</b>	<b>Mica</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (46 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
71-36-3	1-Butanol	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B67R235  
03 00

DATE OF PREPARATION  
Nov 21, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B67R235

### PRODUCT NAME

DURA-PLATE® 235 Multi-Purpose Epoxy (Part A), Red Oxide

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	71-36-3	1-Butanol		5.5 mm
		ACGIH TLV	20 PPM	
		OSHA PEL	50 ppm (Skin) CEILING	
4	110-43-0	Methyl n-Amyl Ketone		3.855 mm
		ACGIH TLV	50 PPM	
		OSHA PEL	100 PPM	
23	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
3	Proprietary	Phenol blocked TDI Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
32	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
10	12001-26-2	Mica		
		ACGIH TLV	3 mg/m3 as Resp. Dust	
		OSHA PEL	3 mg/m3 as Resp. Dust	
0.2	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

115° F PMCC

**LEL**

1.0

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

<b>SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>PRODUCT WEIGHT</b>	12.07 lb/gal	1446 g/l
<b>SPECIFIC GRAVITY</b>	1.45	
<b>BOILING POINT</b>	243 - 308° F	117 - 153° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	30%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.09lb/gal	251g/l	Less Water and Federally Exempt Solvents
2.09lb/gal	251g/l	Emitted VOC

<b>SECTION 10 — STABILITY AND REACTIVITY</b>
--

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

<b>SECTION 11 — TOXICOLOGICAL INFORMATION</b>
---

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>Proprietary</b>	<b>Phenol blocked TDI Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>12001-26-2</b>	<b>Mica</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>1333-86-4</b>	<b>Carbon Black</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (46 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
71-36-3	1-Butanol	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B67T235  
06 00

DATE OF PREPARATION  
Nov 3, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B67T235

**PRODUCT NAME**

DURA-PLATE® 235 Multi-Purpose Epoxy (Part A), Ultra Deep Base

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	
6	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
25	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
4	Proprietary	Phenol blocked TDI Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
29	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
12	12001-26-2	Mica		
		ACGIH TLV	3 mg/m3 as Resp. Dust	
		OSHA PEL	3 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	2
<b>Reactivity</b>	0

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

115° F PMCC

**LEL**

1.0

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are

ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.30 lb/gal	1354 g/l
<b>SPECIFIC GRAVITY</b>	1.36	
<b>BOILING POINT</b>	243 - 308° F	117 - 153° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	30%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.13lb/gal	255g/l	Less Water and Federally Exempt Solvents
2.13lb/gal	255g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
71-36-3	1-Butanol	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
110-43-0	Methyl n-Amyl Ketone	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
Proprietary	Epoxy Polymer	LC50 RAT LD50 RAT	4HR	Not Available Not Available
Proprietary	Phenol blocked TDI Polymer	LC50 RAT LD50 RAT	4HR	Not Available Not Available
14807-96-6	Talc	LC50 RAT LD50 RAT	4HR	Not Available Not Available
12001-26-2	Mica	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (46 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
71-36-3	1-Butanol	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B67V235  
07 00

DATE OF PREPARATION  
Oct 13, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B67V235

### PRODUCT NAME

DURA-PLATE® 235 Multi-Purpose Epoxy (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
4	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
25	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
5	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	
5	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
1	107-15-3	Ethylenediamine		
		ACGIH TLV	10 ppm (Skin)	10.7 mm
		OSHA PEL	Not Available	
59	Proprietary	Polyamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

<b>FLASH POINT</b> 118° F PMCC	<b>LEL</b> 1.0	<b>UEL</b> 16.6	<b>FLAMMABILITY CLASSIFICATION</b> Combustible, Flash above 99 and below 200° F
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#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### **PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### **EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	7.83 lb/gal	938 g/l
<b>SPECIFIC GRAVITY</b>	0.94	
<b>BOILING POINT</b>	243 - 292° F	117 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	39%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.82lb/gal	337g/l	Less Water and Federally Exempt Solvents
2.82lb/gal	337g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT	4HR	8000 ppm
		LD50 RAT		790 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		1653 mg/kg
<b>107-15-3</b>	<b>Ethylenediamine</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>Proprietary</b>	<b>Polyamine</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (48 C c.c.), EmS

F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	4	
1330-20-7	Xylene	25	
71-36-3	1-Butanol	5	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62A55  
07 00

DATE OF PREPARATION  
Oct 13, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62A55

### PRODUCT NAME

EPO-PHEN Hi-Temp Coating (Part A), Haze Gray

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
6	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
5	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
27	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
4	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

56° F PMCC

#### **LEL**

1.0

#### **UEL**

10.0

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IB

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### **PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	16.27 lb/gal	1949 g/l
<b>SPECIFIC GRAVITY</b>	1.96	
<b>BOILING POINT</b>	174 - 292° F	78 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.04lb/gal	244g/l	Less Water and Federally Exempt Solvents
2.04lb/gal	244g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D  
Larger Containers are Regulated as:  
UN1263, PAINT, 3, PG II, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)

### Canada (TDG)

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG II, (13 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	6	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62V55  
03 00

DATE OF PREPARATION  
Oct 13, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62V55

### PRODUCT NAME

EPO-PHEN Hi-Temp Coating (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
30	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
50	Proprietary	Modified Aliphatic Amine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
15	694-83-7	1,2-Cyclohexanediamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

**FLASH POINT** > 200° F PMCC      **LEL** N.A.      **UEL** N.A.      **FLAMMABILITY CLASSIFICATION** Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	9.00 lb/gal	1078 g/l
<b>SPECIFIC GRAVITY</b>	1.08	
<b>BOILING POINT</b>	396 - 405° F	202 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	32%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		

2.70lb/gal 323g/l Less Water and Federally Exempt Solvents  
2.70lb/gal 323g/l Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

#### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	Modified Aliphatic Amine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
694-83-7	1,2-Cyclohexanediamine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

Not Regulated for Transportation.

### Canada (TDG)

Not Regulated for Transportation.

### IMO

Not Regulated for Transportation.

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54BZ411  
05 00

DATE OF PREPARATION  
Feb 6, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B54BZ411

### PRODUCT NAME

Industrial Enamel HS, Black

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
22	64742-88-7	Mineral Spirits		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
1	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	2807-30-9	2-Propoxyethanol		1.3 mm
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
2	78-93-3	Methyl Ethyl Ketone		70 mm
		ACGIH TLV	200 PPM	
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
0.1	136-52-7	Cobalt 2-Ethylhexanoate		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
16	471-34-1	Calcium Carbonate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
2	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

104° F PMCC

**LEL**

1.0

**UEL**

15.8

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	8.90 lb/gal	1066 g/l
<b>SPECIFIC GRAVITY</b>	1.07	
<b>BOILING POINT</b>	174 - 395° F	78 - 201° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	38%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.54lb/gal	305g/l	Less Water and Federally Exempt Solvents
2.54lb/gal	305g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Cobalt and cobalt compounds are classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is inadequate evidence in humans for its carcinogenicity.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-88-7</b>	<b>Mineral Spirits</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>2807-30-9</b>	<b>2-Propoxyethanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 3090 mg/kg
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
<b>136-52-7</b>	<b>Cobalt 2-Ethylhexanoate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>471-34-1</b>	<b>Calcium Carbonate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>1333-86-4</b>	<b>Carbon Black</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (40 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	0.2	
1330-20-7	Xylene	1	
	Cobalt Compound	0.1	0.01
	Glycol Ethers	2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54WZ413  
06 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B54WZ413

### PRODUCT NAME

Industrial Enamel HS, Deep Base

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
22	64742-88-7	Mineral Spirits		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
1	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
4	111-76-2	2-Butoxyethanol		0.88 mm
		ACGIH TLV	20 PPM	
		OSHA PEL	25 PPM	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
25	471-34-1	Calcium Carbonate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
6	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	2
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

102° F PMCC

#### **LEL**

1.0

#### **UEL**

10.6

#### **FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

To minimize the possibility of spontaneous combustion: control the accumulation of overspray; soak wiping rags and waste immediately after use in a water-filled, closed metal container; air dry filters outside, far from any combustible material and separated by bricks or other non-combustible spacers; dispose of all contaminated materials and waste properly. Consult OSHA 29 CFR 1910.107(b)(5) and NFPA 33, Chapter 8 (8-9) for the proper procedures.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

<b>SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>PRODUCT WEIGHT</b>	9.90 lb/gal	1186 g/l
<b>SPECIFIC GRAVITY</b>	1.19	
<b>BOILING POINT</b>	281 - 395° F	138 - 201° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	41%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.73lb/gal	327g/l	Less Water and Federally Exempt Solvents
2.73lb/gal	327g/l	Emitted VOC

<b>SECTION 10 — STABILITY AND REACTIVITY</b>
--

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

<b>SECTION 11 — TOXICOLOGICAL INFORMATION</b>
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**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
64742-88-7	Mineral Spirits	LC50 RAT LD50 RAT	4HR	Not Available Not Available
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
111-76-2	2-Butoxyethanol	LC50 RAT LD50 RAT	4HR	Not Available 470 mg/kg
14808-60-7	Quartz	LC50 RAT LD50 RAT	4HR	Not Available Not Available
471-34-1	Calcium Carbonate	LC50 RAT LD50 RAT	4HR	Not Available Not Available
13463-67-7	Titanium Dioxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (39 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.2	
1330-20-7	Xylene	1	
	Glycol Ethers	4	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54WZ401  
13 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B54WZ401

### PRODUCT NAME

Industrial Enamel HS, Pure White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
24	64742-88-7	Mineral Spirits		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	111-76-2	2-Butoxyethanol		0.88 mm
		ACGIH TLV	20 PPM	
		OSHA PEL	25 PPM	
8	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
16	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### HMIS Codes

Health	2*
Flammability	2
Reactivity	0

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

103° F PMCC

**LEL**

1.0

**UEL**

10.6

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

To minimize the possibility of spontaneous combustion: control the accumulation of overspray; soak wiping rags and waste immediately after use in a water-filled, closed metal container; air dry filters outside, far from any combustible material and separated by bricks or other non-combustible spacers; dispose of all contaminated materials and waste properly. Consult OSHA 29 CFR 1910.107(b)(5) and NFPA 33, Chapter 8 (8-9) for the proper procedures.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	9.69 lb/gal	1161 g/l
<b>SPECIFIC GRAVITY</b>	1.17	
<b>BOILING POINT</b>	300 - 395° F	148 - 201° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	40%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.66lb/gal	319g/l	Less Water and Federally Exempt Solvents
2.66lb/gal	319g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-88-7</b>	<b>Mineral Spirits</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>111-76-2</b>	<b>2-Butoxyethanol</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		470 mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (39 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	
	Glycol Ethers	2	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54EZ439  
10 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B54EZ439

**PRODUCT NAME**

Industrial Enamel HS, Orange

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
19	64742-88-7	<b>Mineral Spirits</b>		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	100-41-4	<b>Ethylbenzene</b>		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
1	1330-20-7	<b>Xylene</b>		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	111-76-2	<b>2-Butoxyethanol</b>		0.88 mm
		ACGIH TLV	20 PPM	
		OSHA PEL	25 PPM	
4	108-65-6	<b>1-Methoxy-2-Propanol Acetate</b>		1.8 mm
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
7	14807-96-6	<b>Talc</b>		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
9	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.  
**SKIN:** Prolonged or repeated exposure may cause irritation.  
**INHALATION:** Irritation of the upper respiratory system.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	2
<b>Reactivity</b>	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
103° F PMCC	1.0	13.1	Combustible, Flash above 99 and below 200° F

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	9.24 lb/gal	1107 g/l
<b>SPECIFIC GRAVITY</b>	1.11	
<b>BOILING POINT</b>	281 - 395° F	138 - 201° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	39%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.70lb/gal	323g/l	Less Water and Federally Exempt Solvents
2.70lb/gal	323g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-88-7</b>	<b>Mineral Spirits</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
<b>111-76-2</b>	<b>2-Butoxyethanol</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		470 mg/kg
<b>108-65-6</b>	<b>1-Methoxy-2-Propanol Acetate</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (39 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.2	
1330-20-7	Xylene	1	
	Glycol Ethers	4	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54RZ438  
09 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B54RZ438

### PRODUCT NAME

Industrial Enamel HS, Safety Red

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
26	64742-88-7	Mineral Spirits		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
24	471-34-1	Calcium Carbonate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
1	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### HMIS Codes

Health	2*
Flammability	2
Reactivity	0

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

103° F PMCC

**LEL**

1.0

**UEL**

6.0

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

To minimize the possibility of spontaneous combustion: control the accumulation of overspray; soak wiping rags and waste immediately after use in a water-filled, closed metal container; air dry filters outside, far from any combustible material and separated by bricks or other non-combustible spacers; dispose of all contaminated materials and waste properly. Consult OSHA 29 CFR 1910.107(b)(5) and NFPA 33, Chapter 8 (8-9) for the proper procedures.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	9.46 lb/gal	1133 g/l
<b>SPECIFIC GRAVITY</b>	1.14	
<b>BOILING POINT</b>	300 - 395° F	148 - 201° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	41%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.71lb/gal	324g/l	Less Water and Federally Exempt Solvents
2.70lb/gal	324g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-88-7</b>	<b>Mineral Spirits</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>471-34-1</b>	<b>Calcium Carbonate</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (39 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	
	Glycol Ethers	1	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54YZ437  
09 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B54YZ437

**PRODUCT NAME**

Industrial Enamel HS, Safety Yellow

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
16	64742-88-7	<b>Mineral Spirits</b>		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.8	100-41-4	<b>Ethylbenzene</b>		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
5	1330-20-7	<b>Xylene</b>		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	95-63-6	<b>1,2,4-Trimethylbenzene</b>		2.03 mm
		ACGIH TLV	25 PPM	
		OSHA PEL	25 PPM	
1	2807-30-9	<b>2-Propoxyethanol</b>		1.3 mm
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
16	471-34-1	<b>Calcium Carbonate</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
11	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	3
<b>Reactivity</b>	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

95° F PMCC

#### **LEL**

1.0

#### **UEL**

15.8

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.03 lb/gal	1201 g/l
<b>SPECIFIC GRAVITY</b>	1.21	
<b>BOILING POINT</b>	281 - 395° F	138 - 201° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	40%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.73lb/gal	327g/l	Less Water and Federally Exempt Solvents
2.73lb/gal	327g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-88-7</b>	<b>Mineral Spirits</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>2807-30-9</b>	<b>2-Propoxyethanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 3090 mg/kg
<b>471-34-1</b>	<b>Calcium Carbonate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (35 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	0.7	
1330-20-7	Xylene	5	
95-63-6	1,2,4-Trimethylbenzene	1	
	Glycol Ethers	1	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B54TZ404  
05 00

DATE OF PREPARATION  
Feb 14, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B54TZ404

### PRODUCT NAME

Industrial Enamel HS, Ultradeep Base

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
16	64742-88-7	Mineral Spirits		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
6	64742-88-7	Mineral Spirits 140-Flash		
		ACGIH TLV	100 PPM	0.5 mm
		OSHA PEL	100 PPM	
0.3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
4	111-76-2	2-Butoxyethanol		
		ACGIH TLV	20 PPM	0.88 mm
		OSHA PEL	25 PPM	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
10	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	2
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

100° F PMCC

#### **LEL**

0.9

#### **UEL**

10.6

#### **FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	9.16 lb/gal	1098 g/l
<b>SPECIFIC GRAVITY</b>	1.10	
<b>BOILING POINT</b>	281 - 416° F	138 - 213° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	39%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	2.63lb/gal	316g/l
	2.63lb/gal	315g/l
		Less Water and Federally Exempt Solvents
		Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-88-7</b>	<b>Mineral Spirits</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>64742-88-7</b>	<b>Mineral Spirits 140-Flash</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
<b>111-76-2</b>	<b>2-Butoxyethanol</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		470 mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (38 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	
	Glycol Ethers	4	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58B600  
02 00

DATE OF PREPARATION  
Sep 24, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58B600

### PRODUCT NAME

MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Black

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
17	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
12	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
38	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
4	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

85° F PMCC

#### **LEL**

1.0

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### **PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	10.71 lb/gal	1283 g/l
<b>SPECIFIC GRAVITY</b>	1.29	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.13lb/gal	255g/l	Less Water and Federally Exempt Solvents
2.13lb/gal	255g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		1653 mg/kg
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		8000. mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>1333-86-4</b>	<b>Carbon Black</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D  
Larger Containers are Regulated as:  
UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ  
Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)

### Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (29 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	17	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58W610  
11 00

DATE OF PREPARATION  
Oct 1, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58W610

### PRODUCT NAME

MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Mill White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
15	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
11	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
9	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
31	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	0

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

85° F PMCC

**LEL**

1.0

**UEL**

7.0

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	12.19 lb/gal	1460 g/l
<b>SPECIFIC GRAVITY</b>	1.47	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.11lb/gal	253g/l	Less Water and Federally Exempt Solvents
2.11lb/gal	253g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		8000. mg/kg
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),

(ERG#128)

### Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (29 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	15	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58R600  
05 00

DATE OF PREPARATION  
Oct 4, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58R600

### PRODUCT NAME

MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Safety Red

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
17	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
13	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
0.2	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
20	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
3	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

100° F PMCC

#### **LEL**

1.0

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.40 lb/gal	1246 g/l
<b>SPECIFIC GRAVITY</b>	1.25	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	2.08lb/gal	250g/l
	2.08lb/gal	250g/l
		Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
90-72-2	Tri(dimethylaminomethyl)phenol	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
68410-23-1	Polyamide	LC50 RAT LD50 RAT	4HR	Not Available 8000. mg/kg
14808-60-7	Quartz	LC50 RAT LD50 RAT	4HR	Not Available Not Available
14807-96-6	Talc	LC50 RAT LD50 RAT	4HR	Not Available Not Available
13463-67-7	Titanium Dioxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (38 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	17	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58Y600  
05 00

DATE OF PREPARATION  
Oct 1, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B58Y600

**PRODUCT NAME**

MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Safety Yellow

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
16	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
12	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
0.2	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
18	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
11	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

**HMIS Codes**

<b>Health</b>	3*
<b>Flammability</b>	2
<b>Reactivity</b>	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

100° F PMCC

#### **LEL**

1.0

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.95 lb/gal	1311 g/l
<b>SPECIFIC GRAVITY</b>	1.32	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	2.08lb/gal	250g/l
	2.08lb/gal	250g/l
		Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT LD50 RAT	4HR	Not Available 8000. mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (38 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	16	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58T604  
03 00

DATE OF PREPARATION  
Sep 24, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58T604

### PRODUCT NAME

MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Ultradeep Base

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
15	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
13	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
0.2	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
18	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

73° F PMCC

#### **LEL**

1.0

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### **PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	10.97 lb/gal	1314 g/l
<b>SPECIFIC GRAVITY</b>	1.32	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	27%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.94lb/gal	232g/l	Less Water and Federally Exempt Solvents
1.94lb/gal	232g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT LD50 RAT	4HR	Not Available 8000. mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D  
Larger Containers are Regulated as:  
UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ  
Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)

### Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (23 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	15	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58V600  
07 00

DATE OF PREPARATION  
Oct 28, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58V600

### PRODUCT NAME

MACROPOXY® 646 Fast Cure Epoxy Coating (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
10	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
14	25036-25-3	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
14	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
58	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

73° F PMCC

**LEL**

1.0

**UEL**

7.5

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	13.46 lb/gal	1612 g/l
<b>SPECIFIC GRAVITY</b>	1.62	
<b>BOILING POINT</b>	237 - 292° F	113 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	24%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	1.65lb/gal	198g/l
	1.65lb/gal	198g/l
		Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
<b>108-10-1</b>	<b>Methyl Isobutyl Ketone</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg
<b>25036-25-3</b>	<b>Epoxy Polymer</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>25068-38-6</b>	<b>Epoxy Polymer</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Methylisobutyl ketone 5000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

### Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

### IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (23 C c.c.), EmS  
F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	
108-10-1	Methyl Isobutyl Ketone	10	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58L700  
06 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58L700

### PRODUCT NAME

MACROPOXY 846 Winter Grade Epoxy (Part A), NSF Blue

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
13	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	78-83-1	2-Methyl-1-propanol		
		ACGIH TLV	50 PPM	8.7 mm
		OSHA PEL	50 PPM	
2	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
17	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
41	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
16	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

76° F PMCC

#### **LEL**

1.0

#### **UEL**

10.9

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

#### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

#### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	12.62 lb/gal	1512 g/l
<b>SPECIFIC GRAVITY</b>	1.52	
<b>BOILING POINT</b>	222 - 292° F	105 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	32%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.29lb/gal	275g/l	Less Water and Federally Exempt Solvents
2.29lb/gal	275g/l	Emitted VOC

### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>78-83-1</b>	<b>2-Methyl-1-propanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 2460 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (24 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	13	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58W710  
05 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58W710

### PRODUCT NAME

MACROPOXY 846 Winter Grade Epoxy (Part A), Off White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
12	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	78-83-1	2-Methyl-1-propanol		8.7 mm
		ACGIH TLV	50 PPM	
		OSHA PEL	50 PPM	
2	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
16	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
29	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
30	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

EYES: Causes burns.

SKIN: Causes burns.

INHALATION: Causes burns of the upper respiratory system.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

76° F PMCC

#### **LEL**

1.0

#### **UEL**

10.9

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

#### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

#### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	13.30 lb/gal	1593 g/l
<b>SPECIFIC GRAVITY</b>	1.60	
<b>BOILING POINT</b>	222 - 292° F	105 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	32%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.30lb/gal	276g/l	Less Water and Federally Exempt Solvents
2.30lb/gal	276g/l	Emitted VOC

### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>78-83-1</b>	<b>2-Methyl-1-propanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 2460 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (24 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	12	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58V700  
05 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58V700

### PRODUCT NAME

MACROPOXY 846 Winter Grade Epoxy (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
9	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
2	78-83-1	2-Methyl-1-propanol		
		ACGIH TLV	50 PPM	8.7 mm
		OSHA PEL	50 PPM	
3	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
15	67924-34-9	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
15	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
40	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
6	14807-96-6	Talc		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

80° F PMCC

**LEL**

1.0

**UEL**

10.9

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

#### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	12.03 lb/gal	1440 g/l
<b>SPECIFIC GRAVITY</b>	1.45	
<b>BOILING POINT</b>	222 - 337° F	105 - 169° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	30%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.17lb/gal	261g/l	Less Water and Federally Exempt Solvents
2.17lb/gal	261g/l	Emitted VOC

### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>78-83-1</b>	<b>2-Methyl-1-propanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 2460 mg/kg
<b>108-10-1</b>	<b>Methyl Isobutyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2080 mg/kg
<b>67924-34-9</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>25068-38-6</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (27 C c.c.), EmS  
F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	9	
95-63-6	1,2,4-Trimethylbenzene	1	
108-10-1	Methyl Isobutyl Ketone	3	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58T101  
07 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B58T101

### PRODUCT NAME

MACROPOXY® 920 Pre-Prime Penetrating Epoxy Pre-Primer (Part A), Transparent

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
19	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
30	26761-45-5	Alkyl Glycidyl Ester		
		ACGIH TLV	Not Available	0.11 mm
		OSHA PEL	Not Available	
50	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b> > 200° F PMCC	<b>LEL</b> N.A.	<b>UEL</b> N.A.	<b>FLAMMABILITY CLASSIFICATION</b> Not Applicable
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### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	8.90 lb/gal	1066 g/l
<b>SPECIFIC GRAVITY</b>	1.07	
<b>BOILING POINT</b>	396 - 491° F	202 - 255° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	53%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**

4.40lb/gal 528g/l Less Water and Federally Exempt Solvents  
4.40lb/gal 528g/l Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

#### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
26761-45-5	Alkyl Glycidyl Ester	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
25068-38-6	Epoxy Polymer	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

Not Regulated for Transportation.

### Canada (TDG)

Not Regulated for Transportation.

### IMO

Not Regulated for Transportation.

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58V10

06 00

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## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES
B58V10	14-APR-08	Health 3*
		Flammability 1
		Reactivity 0

### PRODUCT NAME

MACROPOXY® 920 Pre-Prime Penetrating Epoxy Pre-Primer (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### TELEPHONE NUMBERS and WEBSITES

#### Product Information

[www.sherwin-williams.com](http://www.sherwin-williams.com)

#### Regulatory Information

(216) 566-2902

[www.paintdocs.com](http://www.paintdocs.com)

#### Medical Emergency

(216) 566-2917

#### Transportation Emergency

(800) 424-9300

for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

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## Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
5	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
10	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
3	107-15-3	Ethylenediamine		
		ACGIH TLV	10 ppm (Skin)	10.7 mm
		OSHA PEL	Not Available	
82	Proprietary	Ketamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

This product releases Methyl Isobutyl Ketone during use.

16	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 ppm	16 mm
		ACGIH TLV	75 ppm STEL	
		OSHA PEL	50 ppm	
		OSHA PEL	75 ppm STEL	

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## Section 3 -- HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

## =====

EFFECTS OF OVEREXPOSURE

EYES: Causes burns.

SKIN: Causes burns.

INHALATION: Severe irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous and urinary systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## =====

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.  
Get medical attention IMMEDIATELY.

SKIN: Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and launder before re-use.  
INHALATION: If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

INGESTION: Do not induce vomiting.

Get medical attention immediately.

## =====

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT

>200 F PMCC

LEL

N.A.

UEL

N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## =====

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

=====  
Section 7 -- HANDLING AND STORAGE  
=====

## STORAGE CATEGORY

DOL Storage Class IIIB

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

=====  
Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION  
=====

## PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

## VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

## RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

## PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

## EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

## OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin. Wear long sleeved clothing.

## OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

=====  
Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES  
=====

PRODUCT WEIGHT	7.26 lb/gal	869 g/l
SPECIFIC GRAVITY	0.87	
BOILING POINT	243 - 405 F	117 - 207 C
MELTING POINT	Not Available	
VOLATILE VOLUME	6 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
0.56 lb/gal	67 g/l	Less Water and Federally Exempt Solvents

=====  
 Section 10 -- STABILITY AND REACTIVITY  
 =====

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

=====

Section 11 -- TOXICOLOGICAL INFORMATION  
 =====

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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TOXICOLOGY DATA

CAS No.	Ingredient Name				
100-51-6	Phenylmethanol	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
90-72-2	Tri(dimethylaminomethyl)phenol	LC50	RAT	4HR	Not Available
		LD50	RAT		1653 mg/kg
107-15-3	Ethylenediamine	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
Proprietary	Ketamine	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-10-1	Methyl Isobutyl Ketone	LC50	RAT	4HR	Not Available
		LD50	RAT		2080 mg/kg

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Section 12 -- ECOLOGICAL INFORMATION  
 =====

No data available.

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Section 13 -- DISPOSAL CONSIDERATIONS  
 =====

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

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Section 14 -- TRANSPORT INFORMATION  
 =====

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

Continued on page 5

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Section 15 -- REGULATORY INFORMATION  
=====-----  
SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT
108-10-1	Methyl Isobutyl Ketone (released during use)	16

## CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

## TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

=====  
Section 16 -- OTHER INFORMATION  
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This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

920-R-A11  
05 00

DATE OF PREPARATION  
Nov 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

920-R-A11

**PRODUCT NAME**

PHENICON® HS Flake Filled High Solids Epoxy (Part A), Reddish Gray

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
<i>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</i>	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
11	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	
1	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
6	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
20	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
12	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
12	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
7	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

80° F PMCC

**LEL**

1.0

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

#### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	14.74 lb/gal	1766 g/l
<b>SPECIFIC GRAVITY</b>	1.77	
<b>BOILING POINT</b>	174 - 292° F	78 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	31%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.20lb/gal	264g/l	Less Water and Federally Exempt Solvents
2.20lb/gal	264g/l	Emitted VOC

### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>25068-38-6</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	11	
71-36-3	1-Butanol	1	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

920-A-175  
05 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

920-A-175

**PRODUCT NAME**

PHENICON® High Solids Epoxy (Part A), Light Gray

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
<i>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</i>	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
14	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	71-36-3	<b>1-Butanol</b>		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 PPM (Skin) CEILING	
1	78-93-3	<b>Methyl Ethyl Ketone</b>		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
6	Proprietary	<b>Epoxy Polymer</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
21	25068-38-6	<b>Epoxy Polymer</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
18	14807-96-6	<b>Talc</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
22	7727-43-7	<b>Barium Sulfate</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
12	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

80° F PMCC

**LEL**

1.0

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

#### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	13.66 lb/gal	1637 g/l
<b>SPECIFIC GRAVITY</b>	1.64	
<b>BOILING POINT</b>	174 - 292° F	78 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	35%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.53lb/gal	303g/l	Less Water and Federally Exempt Solvents
2.53lb/gal	303g/l	Emitted VOC

### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

#### CONDITIONS TO AVOID

None known.

#### INCOMPATIBILITY

None known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

#### HAZARDOUS POLYMERIZATION

Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>25068-38-6</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>7727-43-7</b>	<b>Barium Sulfate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	14	
71-36-3	1-Butanol	1	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

920-W-A11  
09 00

DATE OF PREPARATION  
Feb 21, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

920-W-A11

**PRODUCT NAME**

PHENICON® High Solids Epoxy (Part A), White

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
11	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 PPM (Skin) CEILING	
1	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
6	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
20	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
20	14807-96-6	Talc		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
27	7727-43-7	Barium Sulfate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
11	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

80° F PMCC

### LEL

1.0

### UEL

11.2

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IC

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	14.80 lb/gal	1773 g/l
<b>SPECIFIC GRAVITY</b>	1.78	
<b>BOILING POINT</b>	174 - 292° F	78 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	31%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.21lb/gal	265g/l	Less Water and Federally Exempt Solvents
2.21lb/gal	265g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable

### CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>78-93-3</b>	<b>Methyl Ethyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 2740 mg/kg
<b>Proprietary</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>25068-38-6</b>	<b>Epoxy Polymer</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>7727-43-7</b>	<b>Barium Sulfate</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>13463-67-7</b>	<b>Titanium Dioxide</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	11	
71-36-3	1-Butanol	1	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

700-C-685  
04 00

DATE OF PREPARATION  
Oct 13, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

700-C-685

### PRODUCT NAME

High Solids Epoxy (Part B), Catalyst

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
38	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
3	112-57-2	Tetraethylene Pentamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
15	694-83-7	1,2-Cyclohexanediamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
23	Proprietary	Polyamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
20	Proprietary	Polyamidoamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
200° F PMCC	N.A.	N.A.	Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	8.53 lb/gal	1022 g/l
<b>SPECIFIC GRAVITY</b>	1.03	
<b>BOILING POINT</b>	396 - 405° F	202 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	37%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
3.27lb/gal	392g/l	Less Water and Federally Exempt Solvents
3.27lb/gal	392g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
112-57-2	Tetraethylene Pentamine	LC50 RAT	4HR	Not Available
		LD50 RAT		205 mg/kg
694-83-7	1,2-Cyclohexanediamine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	Polyamine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	Polyamidoamine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

**US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

700-C-825  
02 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

700-C-825

**PRODUCT NAME**

High Solids Epoxy (Part B), Low Temp Hardener

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
7	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
36	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
2	108-95-2	Phenol		
		ACGIH TLV	5 ppm (Skin)	0.357 mm
		OSHA PEL	5 ppm (Skin)	
3	1477-55-0	1,3-Benzenedimethanamine		
		ACGIH TLV	0.1 ppm (Skin) CEILING	
		OSHA PEL	0.1 ppm (Skin) CEILING	
4	1761-71-3	Methylenedicyclohexylamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
12	Proprietary	Polyamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**HMIS Codes**

<b>Health</b>	3*
<b>Flammability</b>	3
<b>Reactivity</b>	1

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, nervous and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

80° F PMCC

#### **LEL**

1.0

#### **UEL**

9.3

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	8.73 lb/gal	1046 g/l
<b>SPECIFIC GRAVITY</b>	1.05	
<b>BOILING POINT</b>	277 - 405° F	136 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	47%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
3.97lb/gal	475g/l	Less Water and Federally Exempt Solvents
3.97lb/gal	475g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>100-51-6</b>	<b>Phenylmethanol</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>108-95-2</b>	<b>Phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 530 mg/kg
<b>1477-55-0</b>	<b>1,3-Benzenedimethanamine</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>1761-71-3</b>	<b>Methylenedicyclohexylamine</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>Proprietary</b>	<b>Polyamine</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	7	
108-95-2	Phenol	2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62B360  
01 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62B360

### PRODUCT NAME

SHERPLATE 360 Epoxy (Part A), Black

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
11	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
0.2	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
16	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
1	1314-13-2	Zinc Oxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0.9	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
> 200° F PMCC	N.A.	N.A.	Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.37 lb/gal	1362 g/l
<b>SPECIFIC GRAVITY</b>	1.37	
<b>BOILING POINT</b>	396 - 405° F	202 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	15%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.33lb/gal	160g/l	Less Water and Federally Exempt Solvents
1.33lb/gal	160g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14808-60-7	Quartz	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	Talc	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1314-13-2	Zinc Oxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1333-86-4	Carbon Black	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Zinc Compound	4	2.1

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62H360  
03 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62H360

### PRODUCT NAME

SHERPLATE 360 Epoxy (Part A), Buff

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
11	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
13	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
6	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
1	1314-13-2	Zinc Oxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
> 200° F PMCC	N.A.	N.A.	Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.81 lb/gal	1415 g/l
<b>SPECIFIC GRAVITY</b>	1.42	
<b>BOILING POINT</b>	396 - 405° F	202 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	15%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.33lb/gal	159g/l	Less Water and Federally Exempt Solvents
1.33lb/gal	159g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14808-60-7	Quartz	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	Talc	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1314-13-2	Zinc Oxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Zinc Compound	4	2.0

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62A360  
01 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62A360

### PRODUCT NAME

SHERPLATE 360 Epoxy (Part A), Gray

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
10	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
9	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
17	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0.2	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
> 200° F PMCC	N.A.	N.A.	Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	12.04 lb/gal	1442 g/l
<b>SPECIFIC GRAVITY</b>	1.45	
<b>BOILING POINT</b>	396 - 405° F	202 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	15%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.35lb/gal	162g/l	Less Water and Federally Exempt Solvents
1.35lb/gal	162g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	Talc	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1333-86-4	Carbon Black	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Zinc Compound	3	2.0

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62R360  
01 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62R360

### PRODUCT NAME

SHERPLATE 360 Epoxy (Part A), Red Oxide

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
11	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
0.1	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
13	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
1	1314-13-2	Zinc Oxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to nervous systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
> 200° F PMCC	N.A.	N.A.	Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.62 lb/gal	1391 g/l
<b>SPECIFIC GRAVITY</b>	1.40	
<b>BOILING POINT</b>	396 - 405° F	202 - 207° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	15%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
1.33lb/gal	160g/l	Less Water and Federally Exempt Solvents
1.33lb/gal	160g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-51-6	Phenylmethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14808-60-7	Quartz	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	Talc	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1314-13-2	Zinc Oxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

**US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Zinc Compound	4	2.1

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B62V360  
02 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B62V360

### PRODUCT NAME

SHERPLATE 360 Hardener (Part B)

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
15	68609-96-1	Alkyl Glycidyl Ether		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
84	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	1
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b> > 200° F PMCC	<b>LEL</b> N.A.	<b>UEL</b> N.A.	<b>FLAMMABILITY CLASSIFICATION</b> Not Applicable
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**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IIIB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	9.56 lb/gal	1145 g/l
<b>SPECIFIC GRAVITY</b>	1.15	
<b>BOILING POINT</b>	Not Applicable	
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	0%	
<b>EVAPORATION RATE</b>	N.A.	
<b>VAPOR DENSITY</b>	N.A.	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
0.05lb/gal	6g/l	Less Water and Federally Exempt Solvents
0.05lb/gal	6g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
68609-96-1	Alkyl Glycidyl Ether	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
25068-38-6	Epoxy Polymer	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

Not Regulated for Transportation.

### Canada (TDG)

Not Regulated for Transportation.

### IMO

Not Regulated for Transportation.

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69B60  
07 00

DATE OF PREPARATION  
Feb 25, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B69B60

**PRODUCT NAME**

TAR GUARD™ Coal Tar Epoxy (Part A), Black

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
17	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
33	65996-93-2	Refined Coal Tar Pitch		
		ACGIH TLV	0.2 MG/M3	
		OSHA PEL	0.2 MG/M3	
11	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
31	14807-96-6	Talc		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

**HMIS Codes**

<b>Health</b>	3*
<b>Flammability</b>	3
<b>Reactivity</b>	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Discard contaminated clothing and shoes.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

87° F PMCC

#### **LEL**

1.0

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

For spray application, wear a full face positive pressure air supplied respirator, TC19C NIOSH/MSHA approved. For brush application, wear an organic vapor NIOSH/MSHA approved respirator. Follow respirator manufacturer's directions for use.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### **PROTECTIVE GLOVES**

Wear Nitrile/NBR gloves.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin. For spray application, wear full body disposable protective clothing.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	11.16 lb/gal	1337 g/l
<b>SPECIFIC GRAVITY</b>	1.34	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	30%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.19lb/gal	263g/l	Less Water and Federally Exempt Solvents
2.19lb/gal	263g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Coal Tar Pitch is listed by NTP. Human and animal studies indicate that prolonged overexposure to Coal Tar Pitch can cause cancer of the skin, lung, bladder and gastrointestinal tract. Inhalation of Coal Tar Pitch Volatiles at application temperatures would not be expected as they are vaporized only at very high temperatures.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>90-72-2</b>	<b>Tri(dimethylaminomethyl)phenol</b>	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
<b>65996-93-2</b>	<b>Refined Coal Tar Pitch</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>68410-23-1</b>	<b>Polyamide</b>	LC50 RAT LD50 RAT	4HR	Not Available 8000. mg/kg
<b>14807-96-6</b>	<b>Talc</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D  
Larger Containers are Regulated as:  
UN1263, PAINT, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ  
Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),  
(ERG#128)

### Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

### IMO

UN1263, PAINT, CLASS 3, PG III, (31 C c.c.), EmS F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	17	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69R60  
03 00

DATE OF PREPARATION  
Feb 25, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B69R60

### PRODUCT NAME

TAR GUARD™ Coal Tar Epoxy (Part A), Red

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	Proprietary	Polycyclic Aromatic Compounds		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
3	100-41-4	Ethylbenzene		7.1 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
18	1330-20-7	Xylene		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	90-72-2	Tri(dimethylaminomethyl)phenol		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
33	65996-93-2	Refined Coal Tar Pitch		
		ACGIH TLV	0.2 MG/M3	
		OSHA PEL	0.2 MG/M3	
11	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
10	14807-96-6	Talc		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

### HMIS Codes

Health	3*
Flammability	3
Reactivity	0

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Discard contaminated clothing and shoes.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

90° F PMCC

#### **LEL**

1.0

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class IC

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

For spray application, wear a full face positive pressure air supplied respirator, TC19C NIOSH/MSHA approved. For brush application, wear an organic vapor NIOSH/MSHA approved respirator. Follow respirator manufacturer's directions for use.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear Nitrile/NBR gloves.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin. For spray application, wear full body disposable protective clothing.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	11.50 lb/gal	1378 g/l
<b>SPECIFIC GRAVITY</b>	1.38	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	33%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.40lb/gal	288g/l	Less Water and Federally Exempt Solvents
2.40lb/gal	288g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Coal Tar Pitch is listed by NTP. Human and animal studies indicate that prolonged overexposure to Coal Tar Pitch can cause cancer of the skin, lung, bladder and gastrointestinal tract. Inhalation of Coal Tar Pitch Volatiles at application temperatures would not be expected as they are vaporized only at very high temperatures.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
Proprietary	Polycyclic Aromatic Compounds	LC50 RAT LD50 RAT	4HR	Not Available Not Available
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
90-72-2	Tri(dimethylaminomethyl)phenol	LC50 RAT LD50 RAT	4HR	Not Available 1653 mg/kg
65996-93-2	Refined Coal Tar Pitch	LC50 RAT LD50 RAT	4HR	Not Available Not Available
68410-23-1	Polyamide	LC50 RAT LD50 RAT	4HR	Not Available 8000. mg/kg
14807-96-6	Talc	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG III, (32 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
Proprietary	Polycyclic Aromatic Compounds	1	
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	18	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69V60  
03 00

DATE OF PREPARATION  
Feb 25, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B69V60

### PRODUCT NAME

TAR GUARD™ Coal Tar Epoxy (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
100	25068-38-6	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

EYE or SKIN contact with product.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2
Flammability	0
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

Not Applicable

### LEL

N.A.

### UEL

N.A.

### FLAMMABILITY CLASSIFICATION

Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

Not Applicable

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	9.70 lb/gal	1162 g/l
<b>SPECIFIC GRAVITY</b>	1.17	
<b>BOILING POINT</b>	Not Applicable	
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	0%	
<b>EVAPORATION RATE</b>	N.A.	
<b>VAPOR DENSITY</b>	N.A.	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
0.00lb/gal	0g/l	Less Water and Federally Exempt Solvents
0.00lb/gal	0g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
25068-38-6	Epoxy Polymer	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

255-C-005  
01 00

DATE OF PREPARATION  
Sep 7, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

255-C-005

### PRODUCT NAME

Epoxy Reducer #005

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
COOK Heavy Duty Protective Coatings  
Cleveland, OH 44115

### Telephone Numbers and Websites

<b>Regulatory Information</b>	(216) 566-2902
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
62	108-88-3	Toluene		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
38	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

<b>Health</b>	2
<b>Flammability</b>	3
<b>Reactivity</b>	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
40° F PMCC	1.0	11.2	RED LABEL -- Flammable, Flash below 100° F (38 °C)
<b>EXTINGUISHING MEDIA</b>			

Carbon Dioxide, Dry Chemical, Foam

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### SECTION 7 — HANDLING AND STORAGE

#### STORAGE CATEGORY

DOL Storage Class IB

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

#### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	7.00 lb/gal	838 g/l
<b>SPECIFIC GRAVITY</b>	0.84	
<b>BOILING POINT</b>	222 - 244° F	105 - 117° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
7.00lb/gal	838g/l	Less Water and Federally Exempt Solvents
7.00lb/gal	838g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
108-88-3	Toluene	LC50 RAT LD50 RAT	4HR	4000 ppm 5000 mg/kg
71-36-3	1-Butanol	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

1-Butanol 5000 lb RQ

Toluene 1000 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG II, (TOLUENE), (ERG#128)

### Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (ERG#128)

### IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (4 C c.c.), EmS F-E,  
S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	62	
71-36-3	1-Butanol	38	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

NAPHTHA 150/SW  
05 00

DATE OF PREPARATION  
Sep 9, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

NAPHTHA 150/SW

### PRODUCT NAME

High Flash Naphtha - 150

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	108-67-8	1,3,5-Trimethylbenzene		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
2	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
84	64742-94-5	Medium Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
13	91-20-3	Naphthalene		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3*
Flammability	2
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b> 140° F PMCC	<b>LEL</b> 0.8	<b>UEL</b> 6.5	<b>FLAMMABILITY CLASSIFICATION</b> Combustible, Flash above 99 and below 200° F
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### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IIIA

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	7.40 lb/gal	886 g/l
<b>SPECIFIC GRAVITY</b>	0.89	
<b>BOILING POINT</b>	328 - 425° F	164 - 218° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
7.40lb/gal	886g/l	Less Water and Federally Exempt Solvents
7.40lb/gal	886g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY** — Stable**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>108-67-8</b>	<b>1,3,5-Trimethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>64742-94-5</b>	<b>Medium Aromatic Hydrocarbons</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
<b>91-20-3</b>	<b>Naphthalene</b>	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classified as a Combustible Liquid for U.S. Ground.  
UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Naphthalene 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG III, (NAPHTHALENE),  
(ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.  
UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (ERG#128)

**IMO**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (60 C c.c.), EmS  
F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
95-63-6	1,2,4-Trimethylbenzene	2	
91-20-3	Naphthalene	13	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

MEK/SW  
12 00

DATE OF PREPARATION  
Sep 9, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

MEK/SW

### PRODUCT NAME

Methyl Ethyl Ketone

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
100	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b> 18° F TCC	<b>LEL</b> 1.8	<b>UEL</b> 10.0	<b>FLAMMABILITY CLASSIFICATION</b> RED LABEL -- Extremely Flammable, Flash below 21° F (-6 °C)
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**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	6.68 lb/gal	800 g/l
<b>SPECIFIC GRAVITY</b>	0.80	
<b>BOILING POINT</b>	174 - 177° F	78 - 80° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
6.68lb/gal	800g/l	Less Water and Federally Exempt Solvents
6.68lb/gal	800g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable  
CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
78-93-3	Methyl Ethyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Quart and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1193, ETHYL METHYL KETONE, 3, PG II, (ERG#127)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl methyl ketone 5000 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1193, ETHYL METHYL KETONE, 3, PG II, (ERG#127)

**Canada (TDG)**

UN1193, ETHYL METHYL KETONE, CLASS 3, PG II, (ERG#127)

**IMO**UN1193, ETHYL METHYL KETONE, CLASS 3, PG II, (-8 C c.c.), EmS F-E,  
S-D**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

R7K100  
06 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

R7K100

**PRODUCT NAME**

Reducer No. 100

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
5	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
22	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
5	98-82-8	Cumene		
		ACGIH TLV	50 PPM	10 mm
		OSHA PEL	50 PPM	
27	108-67-8	1,3,5-Trimethylbenzene		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
40	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	2
<b>Reactivity</b>	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### **SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

### **SECTION 5 — FIRE FIGHTING MEASURES**

#### **FLASH POINT**

105° F PMCC

#### **LEL**

0.7

#### **UEL**

7.0

#### **FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

#### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### **SECTION 7 — HANDLING AND STORAGE**

#### **STORAGE CATEGORY**

DOL Storage Class II

#### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

### **SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

#### **PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### **EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

#### **OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	7.24 lb/gal	867 g/l
<b>SPECIFIC GRAVITY</b>	0.87	
<b>BOILING POINT</b>	277 - 360° F	136 - 182° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
7.24lb/gal	867g/l	Less Water and Federally Exempt Solvents
7.24lb/gal	867g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	Light Aromatic Hydrocarbons	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
98-82-8	Cumene	LC50 RAT	4HR	Not Available
		LD50 RAT		1400 mg/kg
108-67-8	1,3,5-Trimethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	1,2,4-Trimethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.  
UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT RELATED MATERIAL, COMBUSTIBLE LIQUID, PG III,  
(ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.  
UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (41 C c.c.), EmS  
F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	5	
98-82-8	Cumene	5	
95-63-6	1,2,4-Trimethylbenzene	40	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

R7K104  
02 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

R7K104

**PRODUCT NAME**

Reducer No. 104

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.6	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
9	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	98-82-8	Cumene		
		ACGIH TLV	50 PPM	10 mm
		OSHA PEL	50 PPM	
11	108-67-8	1,3,5-Trimethylbenzene		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
17	95-63-6	1,2,4-Trimethylbenzene		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
19	71-36-3	1-Butanol		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 ppm (Skin) CEILING	
39	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	2
<b>Reactivity</b>	0

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

105° F PMCC

**LEL**

0.7

**UEL**

11.2

**FLAMMABILITY CLASSIFICATION**

Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	6.95 lb/gal	832 g/l
<b>SPECIFIC GRAVITY</b>	0.84	
<b>BOILING POINT</b>	243 - 360° F	117 - 182° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
6.94lb/gal	832g/l	Less Water and Federally Exempt Solvents
6.94lb/gal	832g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>100-41-4</b>	<b>Ethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
<b>1330-20-7</b>	<b>Xylene</b>	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
<b>64742-95-6</b>	<b>Light Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>98-82-8</b>	<b>Cumene</b>	LC50 RAT LD50 RAT	4HR	Not Available 1400 mg/kg
<b>108-67-8</b>	<b>1,3,5-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>95-63-6</b>	<b>1,2,4-Trimethylbenzene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>71-36-3</b>	<b>1-Butanol</b>	LC50 RAT LD50 RAT	4HR	8000 ppm 790 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.  
UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

1-Butanol 5000 lb RQ  
Xylenes (isomers and mixture) 100 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT RELATED MATERIAL, COMBUSTIBLE LIQUID, PG III, (ERG#128)

### Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.  
UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (ERG#128)

### IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (41 C c.c.), EmS  
F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.6	
1330-20-7	Xylene	2	
98-82-8	Cumene	2	
95-63-6	1,2,4-Trimethylbenzene	17	
71-36-3	1-Butanol	19	

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

R7K111  
04 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

R7K111

### PRODUCT NAME

Compliant Thinner, Fast

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

*\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
60	98-56-6	p-Chlorobenzotrifluoride		
		ACGIH TLV	Not Available	5.3 mm
		OSHA PEL	Not Available	
40	67-64-1	Acetone		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b> 2° F PMCC	<b>LEL</b> 0.9	<b>UEL</b> 12.8	<b>FLAMMABILITY CLASSIFICATION</b> RED LABEL -- Extremely Flammable, Flash below 21° F (-6 °C)
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**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	8.74 lb/gal	1046 g/l
<b>SPECIFIC GRAVITY</b>	1.05	
<b>BOILING POINT</b>	132 - 283° F	55 - 139° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
0.00lb/gal	0g/l	Less Water and Federally Exempt Solvents
0.00lb/gal	0g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

### STABILITY — Stable CONDITIONS TO AVOID

None known.

### INCOMPATIBILITY

None known.

### HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

### HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
98-56-6	p-Chlorobenzotrifluoride	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
67-64-1	Acetone	LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Acetone 5000 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

### Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (ERG#128)

### IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (-17 C c.c.), EmS

F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

R7K132  
03 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

R7K132

### PRODUCT NAME

Reducer No. 132

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
100	108-65-6	1-Methoxy-2-Propanol Acetate		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS Codes

Health	2
Flammability	2
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT  
108° F PMCC

LEL  
1.3

UEL  
13.1

FLAMMABILITY CLASSIFICATION  
Combustible, Flash above 99 and below 200° F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	8.04 lb/gal	963 g/l
<b>SPECIFIC GRAVITY</b>	0.97	
<b>BOILING POINT</b>	284 - 302° F	140 - 150° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
8.04lb/gal	963g/l	Less Water and Federally Exempt Solvents
8.04lb/gal	963g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
108-65-6	1-Methoxy-2-Propanol Acetate	LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**Bulk Containers may be Shipped as:**

UN1263, PAINT RELATED MATERIAL, COMBUSTIBLE LIQUID, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (ERG#128)

**IMO**UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (42 C c.c.), EmS  
F-E, S-E**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

R7K15  
02 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

R7K15

### PRODUCT NAME

Reducer No. 15

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
8	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
44	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
48	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

64° F PMCC

### LEL

1.0

### UEL

7.5

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	6.91 lb/gal	827 g/l
<b>SPECIFIC GRAVITY</b>	0.83	
<b>BOILING POINT</b>	237 - 292° F	113 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
6.90lb/gal	827g/l	Less Water and Federally Exempt Solvents
6.90lb/gal	827g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
108-10-1	Methyl Isobutyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Methylisobutyl ketone 5000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (18 C c.c.), EmS

F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	8	
1330-20-7	Xylene	44	
108-10-1	Methyl Isobutyl Ketone	48	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

530-8689  
04 00

DATE OF PREPARATION  
Sep 9, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

530-8689

### PRODUCT NAME

Reducer #54

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
4	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
22	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
23	64-17-5	Ethanol		
		ACGIH TLV	1000 PPM	44 mm
		OSHA PEL	1000 PPM	
51	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.  
Contains alcohols and acetates which can be absorbed through the skin.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

55° F PMCC

### LEL

1.0

### UEL

19.0

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	6.75 lb/gal	808 g/l
<b>SPECIFIC GRAVITY</b>	0.81	
<b>BOILING POINT</b>	172 - 292° F	77 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
6.74lb/gal	808g/l	Less Water and Federally Exempt Solvents
6.74lb/gal	808g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64-17-5	Ethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		7060 mg/kg
108-10-1	Methyl Isobutyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Methylisobutyl ketone 5000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (13 C c.c.), EmS

F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	4	
1330-20-7	Xylene	22	
108-10-1	Methyl Isobutyl Ketone	51	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

530-8713  
06 00

DATE OF PREPARATION  
Sep 9, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

530-8713

### PRODUCT NAME

Reducer #58

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
7	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
42	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
23	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
28	108-65-6	1-Methoxy-2-Propanol Acetate		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

80° F PMCC

### LEL

1.0

### UEL

13.1

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IC

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	7.28 lb/gal	872 g/l
<b>SPECIFIC GRAVITY</b>	0.88	
<b>BOILING POINT</b>	277 - 308° F	136 - 153° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
7.28lb/gal	872g/l	Less Water and Federally Exempt Solvents
7.28lb/gal	872g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

### TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
110-43-0	Methyl n-Amyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		1670 mg/kg
108-65-6	1-Methoxy-2-Propanol Acetate	LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg

## SECTION 12 — ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (27 C c.c.), EmS  
F-E, S-E

## SECTION 15 — REGULATORY INFORMATION

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	7	
1330-20-7	Xylene	42	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

XYLENE/SW  
07 00

DATE OF PREPARATION  
Sep 9, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

XYLENE/SW

### PRODUCT NAME

Xylene (Xylol)

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
15	100-41-4	Ethylbenzene		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
85	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

**FLASH POINT** 80° F PMCC      **LEL** 1.0      **UEL** 7.0      **FLAMMABILITY CLASSIFICATION**  
RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IC

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	7.17 lb/gal	859 g/l
<b>SPECIFIC GRAVITY</b>	0.86	
<b>BOILING POINT</b>	277 - 292° F	136 - 144° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
7.17lb/gal	859g/l	Less Water and Federally Exempt Solvents
7.17lb/gal	859g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable  
CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1307, XYLENES, 3, PG III, (ERG#130)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1307, XYLENES, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#130)

**Canada (TDG)**

UN1307, XYLENES, CLASS 3, PG III, LIMITED QUANTITY, (ERG#130)

**IMO**

UN1307, XYLENES, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-D

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	15	
1330-20-7	Xylene	85	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69V3  
12 00

DATE OF PREPARATION  
Feb 25, 2009

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B69V3

**PRODUCT NAME**

ZINC CLAD™ II Ethyl Silicate (Part E), Binder

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
4	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
23	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	67-56-1	<b>Methanol</b>		
		ACGIH TLV	200 PPM (Skin)	92 mm
		ACGIH TLV	250 PPM (Skin) STEL	
		OSHA PEL	200 PPM (Skin)	
		OSHA PEL	250 PPM (Skin) STEL	
26	64-17-5	<b>Ethanol</b>		
		ACGIH TLV	1000 PPM	44 mm
		OSHA PEL	1000 PPM	
2	108-10-1	<b>Methyl Isobutyl Ketone</b>		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
5	78-10-4	<b>Ethyl Silicate</b>		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	100 PPM	
9	14808-60-7	<b>Quartz</b>		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.  
Contains alcohols and acetates which can be absorbed through the skin.

**HMIS Codes**

<b>Health</b>	3*
<b>Flammability</b>	3
<b>Reactivity</b>	0

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

60° F PMCC

**LEL**

1.0

**UEL**

36.5

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.  
Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	8.17 lb/gal	978 g/l
<b>SPECIFIC GRAVITY</b>	0.98	
<b>BOILING POINT</b>	148 - 335° F	64 - 168° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	76%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
5.24lb/gal	628g/l	Less Water and Federally Exempt Solvents
5.10lb/gal	612g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
67-56-1	Methanol	LC50 RAT LD50 RAT	4HR	64000 ppm 5630 mg/kg
64-17-5	Ethanol	LC50 RAT LD50 RAT	4HR	Not Available 7060 mg/kg
108-10-1	Methyl Isobutyl Ketone	LC50 RAT LD50 RAT	4HR	Not Available 2080 mg/kg
78-10-4	Ethyl Silicate	LC50 RAT LD50 RAT	4HR	Not Available 6270 mg/kg
14808-60-7	Quartz	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Ethyl benzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)),

(ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG II, (16 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
100-41-4	Ethylbenzene	4	
1330-20-7	Xylene	23	
67-56-1	Methanol	1	
108-10-1	Methyl Isobutyl Ketone	2	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69D11  
05 00

## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B69D11

HMIS CODES

Health	2
Flammability	0
Reactivity	1

PRODUCT NAME

ZINC CLAD\* Zinc Dust (Part F)

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.  
(216) 566-2917

DATE OF PREPARATION

29-SEP-06

INFORMATION TELEPHONE NO.  
(216) 566-2902

## Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
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100	7440-66-6	Zinc		
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ACGIH TLV	Not Available
OSHA PEL	Not Available

## Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of dust.

EYE or SKIN contact with the product or dust.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.  
Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

INHALATION: If affected, remove from exposure. Restore breathing.  
Keep warm and quiet.

INGESTION: Do not induce vomiting.  
Get medical attention immediately.

Continued on page 2



## =====

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

## PROTECTIVE GLOVES

Required for long or repeated contact.

## EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

## =====

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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PRODUCT WEIGHT	58.60 lb/gal	7021 g/l
SPECIFIC GRAVITY	7.05	
BOILING POINT	Not Applicable	
MELTING POINT	Not Available	
VOLATILE VOLUME	0 %	
EVAPORATION RATE	N.A.	
VAPOR DENSITY	N.A.	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
0.00 lb/gal	0 g/l	Less Water and Federally Exempt Solvents
0.00 lb/gal	0 g/l	Emitted VOC

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## Section 10 -- STABILITY AND REACTIVITY

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STABILITY -- Stable

## CONDITIONS TO AVOID

Avoid contamination of Zinc dust or Zinc-containing mixtures with water. Avoid excess dusting of Zinc dust portions.

## INCOMPATIBILITY

Contamination with Water, Acids, or Alkalis can cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.

## HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2

## HAZARDOUS POLYMERIZATION

Will not occur

## =====

## Section 11 -- TOXICOLOGICAL INFORMATION

## -----

## CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

## -----

## TOXICOLOGY DATA

CAS No.	Ingredient Name
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7440-66-6	Zinc	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Continued on page 4

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Section 12 -- ECOLOGICAL INFORMATION  
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## ECOTOXICOLOGICAL INFORMATION

No data available.

=====  
Section 13 -- DISPOSAL CONSIDERATIONS  
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## WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

=====  
Section 14 -- TRANSPORT INFORMATION  
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No data available.

=====  
Section 15 -- REGULATORY INFORMATION  
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## SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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	Zinc		97
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## CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

## TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

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Section 16 -- OTHER INFORMATION  
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This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69VZ12  
04 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B69VZ12

### PRODUCT NAME

ZINC-CLAD® II Plus Inorganic Zinc-Rich Coating (Part A)

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	64742-94-5	Medium Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
0.5	91-20-3	Naphthalene		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	
6	64-17-5	Ethanol		
		ACGIH TLV	1000 PPM	44 mm
		OSHA PEL	1000 PPM	
3	34590-94-8	2-Methoxymethylethoxypropanol		
		ACGIH TLV	100 ppm (Skin)	0.4 mm
		ACGIH TLV	150 ppm (Skin) STEL	
		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
5	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
17	78-10-4	Ethyl Silicate		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	100 PPM	
21	14808-60-7	Quartz		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
4	7631-86-9	Amorphous Silica		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	6 mg/m3 as Dust	
6	12001-26-2	Mica		
		ACGIH TLV	3 mg/m3 as Resp. Dust	
		OSHA PEL	3 mg/m3 as Resp. Dust	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.**HMIS Codes**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

65° F PMCC

**LEL**

0.8

**UEL**

19.0

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100° F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.  
Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.70 lb/gal	1282 g/l
<b>SPECIFIC GRAVITY</b>	1.29	
<b>BOILING POINT</b>	172 - 415° F	77 - 212° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	50%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
3.69lb/gal	442g/l	Less Water and Federally Exempt Solvents
3.69lb/gal	442g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
<b>64742-94-5</b>	<b>Medium Aromatic Hydrocarbons</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>91-20-3</b>	<b>Naphthalene</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>64-17-5</b>	<b>Ethanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 7060 mg/kg
<b>34590-94-8</b>	<b>2-Methoxymethylethoxypropanol</b>	LC50 RAT LD50 RAT	4HR	Not Available 5135 mg/kg
<b>110-43-0</b>	<b>Methyl n-Amyl Ketone</b>	LC50 RAT LD50 RAT	4HR	Not Available 1670 mg/kg
<b>78-10-4</b>	<b>Ethyl Silicate</b>	LC50 RAT LD50 RAT	4HR	Not Available 6270 mg/kg
<b>14808-60-7</b>	<b>Quartz</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>7631-86-9</b>	<b>Amorphous Silica</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available
<b>12001-26-2</b>	<b>Mica</b>	LC50 RAT LD50 RAT	4HR	Not Available Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Naphthalene 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, 3, PG II, (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG II, (18 C c.c.), EmS F-E, S-E

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
91-20-3	Naphthalene	0.5	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69VZ13  
02 00

DATE OF PREPARATION  
Sep 8, 2008

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B69VZ13

### PRODUCT NAME

ZINC-CLAD® II Plus Inorganic Zinc-Rich Coating (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	67-56-1	Methanol		
		ACGIH TLV	200 ppm (Skin)	92 mm
		ACGIH TLV	250 ppm (Skin) STEL	
		OSHA PEL	200 ppm (Skin)	
		OSHA PEL	250 ppm (Skin) STEL	
70	64-17-5	Ethanol		
		ACGIH TLV	1000 PPM	44 mm
		OSHA PEL	1000 PPM	
4	108-10-1	Methyl Isobutyl Ketone		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
20	7646-85-7	Zinc Chloride		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.  
Contains alcohols and acetates which can be absorbed through the skin.

### EFFECTS OF OVEREXPOSURE

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INHALATION:** Causes burns of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	3
Flammability	3
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

55° F PMCC

### LEL

1.4

### UEL

36.5

### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100° F (38 °C)

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

DOL Storage Class IB

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes, or on skin or clothing. Do not breathe vapor or spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	7.75 lb/gal	928 g/l
<b>SPECIFIC GRAVITY</b>	0.93	
<b>BOILING POINT</b>	148 - 242° F	64 - 116° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	93%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
6.19lb/gal	742g/l	Less Water and Federally Exempt Solvents
6.19lb/gal	742g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY**

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**TOXICOLOGY DATA**

<b>CAS No.</b>	<b>Ingredient Name</b>			
67-56-1	Methanol	LC50 RAT	4HR	64000 ppm
		LD50 RAT		5630 mg/kg
64-17-5	Ethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		7060 mg/kg
108-10-1	Methyl Isobutyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg
7646-85-7	Zinc Chloride	LC50 RAT	4HR	Not Available
		LD50 RAT		350 mg/kg

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

### US Ground (DOT)

UN2924, FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (ETHANOL, ZINC CHLORIDE), 3 (8), PG II, (ERG#132)

### DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Zinc chloride 1000 lb RQ

### Bulk Containers may be Shipped as (check reportable quantities):

UN2924, FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (ETHANOL, ZINC CHLORIDE), 3 (8), PG II, (ERG#132)

### Canada (TDG)

UN2924, FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (ETHANOL, ZINC CHLORIDE), CLASS 3 (8), PG II, (ERG#132)

### IMO

UN2924, FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (ETHANOL, ZINC CHLORIDE), CLASS 3, (8), PG II, (13 C c.c.), EmS F-E, S-C

## SECTION 15 — REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
67-56-1	Methanol	3	
108-10-1	Methyl Isobutyl Ketone	4	
	Zinc Compound	20	9.5

### CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

### TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B69D11  
05 00

## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B69D11

HMIS CODES

Health	2
Flammability	0
Reactivity	1

PRODUCT NAME

ZINC CLAD\* Zinc Dust (Part F)

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

29-SEP-06

INFORMATION TELEPHONE NO.

(216) 566-2902

## Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
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100	7440-66-6	Zinc		
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ACGIH TLV	Not Available
OSHA PEL	Not Available

## Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of dust.

EYE or SKIN contact with the product or dust.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

## Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.  
Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

INHALATION: If affected, remove from exposure. Restore breathing.  
Keep warm and quiet.

INGESTION: Do not induce vomiting.  
Get medical attention immediately.

Continued on page 2



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RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

## PROTECTIVE GLOVES

Required for long or repeated contact.

## EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

## =====

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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PRODUCT WEIGHT	58.60 lb/gal	7021 g/l
SPECIFIC GRAVITY	7.05	
BOILING POINT	Not Applicable	
MELTING POINT	Not Available	
VOLATILE VOLUME	0 %	
EVAPORATION RATE	N.A.	
VAPOR DENSITY	N.A.	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
0.00 lb/gal	0 g/l	Less Water and Federally Exempt Solvents
0.00 lb/gal	0 g/l	Emitted VOC

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## Section 10 -- STABILITY AND REACTIVITY

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STABILITY -- Stable

## CONDITIONS TO AVOID

Avoid contamination of Zinc dust or Zinc-containing mixtures with water. Avoid excess dusting of Zinc dust portions.

## INCOMPATIBILITY

Contamination with Water, Acids, or Alkalis can cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.

## HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2

## HAZARDOUS POLYMERIZATION

Will not occur

## =====

## Section 11 -- TOXICOLOGICAL INFORMATION

## -----

## CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

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## TOXICOLOGY DATA

CAS No.	Ingredient Name
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7440-66-6	Zinc	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

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Section 12 -- ECOLOGICAL INFORMATION  
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## ECOTOXICOLOGICAL INFORMATION

No data available.

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Section 13 -- DISPOSAL CONSIDERATIONS  
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## WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

=====  
Section 14 -- TRANSPORT INFORMATION  
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No data available.

=====  
Section 15 -- REGULATORY INFORMATION  
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## SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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	Zinc		97
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## CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

## TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

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Section 16 -- OTHER INFORMATION  
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This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.